aiwa

aiwa
SERVICE

NSX-A555
NSX-S555
NSX-S556
NSX-S559

COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM/6ZM
- BASIC CD MECHANISM: 4ZG-1 Z3RDSH/4ZP-1/4ZP-1 K

- TYPE:U,LH,HR,HA
  EZ,K,V,G

BASIC TAPE MECHANISM	TYPE
2ZM-3MK2 PR4N	555LH,559LH,HR,HA
6ZM-3PR1N	U
6ZM-3PR2N	555EZ,556EZ,K,V,G

SERVICE MANUAL

S/M Code No. 09–998–401–7T4

ELECTRICAL PARTS LIST-1/12

NOTE: The characters in the suffix column indicate the part usage.

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555EZST5C ..............XX..................................A...................
555UST5FD ..............XX...................................B..................
555UST5C ...............XX....................................C.................
555HRST5M ..............XX.....................................D................
555KST5E ...............XX......................................E...............
555GST5M ...............XX.......................................F..............
555VJST5M ..............XX........................................G.............
555LHST5M ..............XX.........................................H............
556EZST5M ..............XX..........................................I...........
555EZST5M ..............XX...........................................J..........
555HAS5C2M .............XX............................................K.........
559LHS5KM ..............XX.............................................L........
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REF.NO	PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
C 503	87-010-112-040		CAP,E 100-16	...D...H............
C 509	87-010-177-080		C-CAP,S 820P-50 SL	...D...H............
C 502	87-010-186-080		CAP,CHIP 4700P	...D...H............
C 506	87-010-320-080		CHIP CAP 68P	...D...H............
C 504	87-010-405-040		CAP,E 10-50	...D...H............
C 507	87-010-544-040		CAP,E 0.1-50 SME	...D...H............
C 508	87-010-544-040		CAP,E 0.1-50 SME	...D...H............
C 505	87-010-545-040		CAP,E 0.22-50 SME	...D...H............
C 511	87-010-265-040		CAP,E 33-16 SME	...D...H............
C 510	87-010-322-080		C-CAP,S 100P-50 CH	...D...H............
J 501	87-A60-651-010		JACK,3.5MONO	...D...H............
Q 506	87-A30-075-080		C-TR,2SA1235F	...D...H............
Q 504	87-A30-075-080		C-TR,2SA1235F	...D...H............
Q 503	87-A30-076-080		C-TR,2SC3052F	...D...H............
Q 505	87-A30-076-080		C-TR,2SC3052F	...D...H............
Q 502	87-A30-076-080		C-TR,2SC3052F	...D...H............
Q 501	87-A30-087-080		C-FET,2SK2158	...D...H............
VR 501	87-NB7-602-010		VR,RTRY 10KAX1 1 V	...D...H............
C 1	87-010-387-080		CAP,E 470-25 SME	ABCDEFGHIJ..........
C 8	87-010-917-000		CAP,E 3300-50 M SMG	ABCDEFGHIJ..........
C 9	87-010-917-000		CAP,E 3300-50 M SMG	ABCDEFGHIJ..........
C 2	87-018-209-080		CAP, CER 0.1-50V	A...EFG.IJ..........
C 5	87-A11-148-080		CAP,TC U 0.1-50 Z F	ABCDEFGHIJ..........
C 3	87-A11-148-080		CAP,TC U 0.1-50 Z F	ABCDEFGHIJ..........
C 4	87-A11-148-080		CAP,TC U 0.1-50 Z F	ABCDEFGHIJ..........
C 6	87-A11-148-080		CAP,TC U 0.1-50 Z F	ABCDEFGHIJ..........
C 31	87-010-403-040		CAP,E 3.3-50 SME	ABCDEFGHIJ..........
CN 1	87-A60-851-010		CONN,9P V VH	ABCDEFGHIJ..........
D 6	87-A40-547-090		DIODE,D5SBA20	ABCDEFGHIJ..........
D 32	87-020-465-080		DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D 31	87-020-465-080		DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
JW 20	87-026-682-080		PROTECTOR,10A 60V491	A..DEFGHIJ..........
JW 21	87-026-682-080		PROTECTOR,10A 60V491	A..DEFGHIJ..........
PR 3	87-A91-276-080		FUSE,125MA 125V F 251	.BC.................
PT 2	8Z-NF8-661-010		PT,SUB ZNF-8(U)	.BC.................
PT 2	8Z-NF8-662-010		PT,SUB ZNF-8(E)	A...EFG.IJ..........
PT 2	8Z-NF8-663-010		PT,SUB ZNF-8(H)	...D...H............
Q 31	87-026-245-080		TR,DTC114ES	ABCDEFGHIJ..........
Q 32	87-A30-198-080		TR,KTC3199GR	ABCDEFGHIJ..........
RY 2	87-A90-976-010		RELAY,AC12V SDT-S-112LMR	ABC.EFG.IJ..........
RY 1	87-A91-339-010		RELAY,AC DC12V G5PA-2	...D...H............
S 1	87-A90-165-010		SW,SL 1-2-3 SWS2301	...D...H............
T 1	87-A60-317-010		TERMINAL, 1P MSC	ABCDEFGHIJ..........
T 2	87-A60-317-010		TERMINAL, 1P MSC	ABCDEFGHIJ..........
	88-NF8-205-010		GUIDE,FL	ABCD.FGHIJ..........
	8Z-NF8-201-110		GUIDE,OPE	ABCD.FGHIJ..........
	8Z-NF8-202-010		GUIDE,FUN	ABCD.FGHIJ..........
C 201	87-012-140-080		CAP 470P	ABCD.FGHIJ..........
C 203	87-012-157-080		C-CAP,S 330P-50 CH	ABCD.FGHIJ..........
C 211	87-012-157-080		C-CAP,S 330P-50 CH	ABCD.FGHIJ..........
C 254	87-010-194-080		CAP, CHIP 0.047	ABCD.FGHIJ..........
C 252	87-010-198-080		CAP, CHIP 0.022	ABCD.FGHIJ..........
C 255	87-A10-797-040		CAP,E 47-35 M 5L SRM	ABCD.FGHIJ..........
C 260	87-010-198-080		CAP, CHIP 0.022	ABCD.FGHIJ..........
C 272	87-015-690-040		CAP,E 22-35 7L	ABCD.FGHIJ..........
C 270	87-015-699-040		CAP,E 10-50 7L	ABCD.FGHIJ..........
C 271	87-015-699-040		CAP,E 10-50 7L	ABCD.FGHIJ..........
C 302	87-010-182-080		C-CAP,S 2200P-50 B	ABCD.FGHIJ..........
C 301	87-010-182-080		C-CAP,S 2200P-50 B	ABCD.FGHIJ..........
C 314	87-010-194-080		CAP, CHIP 0.047	ABCD.FGHIJ..........
C 311	87-010-194-080		CAP, CHIP 0.047	ABCD.FGHIJ..........
C 312	87-010-405-040		CAP,E 10-50	ABCD.FGHIJ..........
C 324	87-010-194-080		CAP, CHIP 0.047	ABCD.FGHIJ..........
C 325	87-010-263-040		CAP,E 100-10	ABCD.FGHIJ..........
C 322	87-015-694-040		E/CAP 0.47-50	ABCD.FGHIJ..........
C 323	87-016-459-040		CAP,E 470-10 SMG	ABCD.FGHIJ..........
C 332	87-010-178-080		CHIP CAP 1000P	ABCD.FGHIJ..........
C 334	87-010-312-080		C-CAP,S 15P-50 CH	ABCD.FGHIJ..........
C 333	87-012-140-080		CAP 470P	ABCD.FGHIJ..........
C 335	87-012-140-080		CAP 470P	ABCD.FGHIJ..........
C 338	87-012-155-080		C-CAP 180P-50CH	ABCD.FGHIJ..........
C 339	87-012-156-080		C-CAP,S 220P-50 CH	ABCD.FGHIJ..........
C 341	87-010-194-080		CAP, CHIP 0.047	ABCD.FGHIJ..........
C 340	87-010-197-080		CAP, CHIP 0.01 DM	ABCD.FGHIJ..........
C 351	87-010-382-040		CAP,E 22-25 SME	ABCD.FGHIJ..........

C	401	87-010-197-080	CAP, CHIP 0.01 DM	ABCD.FGHIJ..........
C	456	87-012-158-080	C-CAP,S 390P-50 CH	ABCD.FGHIJ..........
C	455	87-016-461-080	C-CAP,S 0.47-16F	ABCD.FGHIJ..........
C	454	87-016-461-080	C-CAP,S 0.47-16F	ABCD.FGHIJ..........
C	457	87-016-461-080	C-CAP,S 0.47-16F	ABCD.FGHIJ..........
C	604	87-010-322-080	C-CAP,S 100P-50 CH	ABCD.FGHIJ..........
C	701	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCD.FGHIJ..........
CON	102	87-099-015-010	CONN,13P 6216V	A.CD.FGHIJ..........
CON	102	87-A60-138-010	CONN,13P V FE	.B..................
CON	101	88-NF9-658-010	CONN,30P BLK TYK-B(P)	ABCD.FGHIJ..........
CON	301	87-099-013-010	CONN,11P 6216 V	ABC..FG.IJ..........
CON	301	87-099-017-010	CONN, 15P 6216 V	...D...H............
D	204	87-020-465-080	DIODE,1SS133 (110MA)	ABCD.FGHIJ..........
D	311	87-A40-509-080	ZENER,MTZJ6.8C	ABCD.FGHIJ..........
D	452	87-017-932-080	ZENER,MTJ6.2B	ABCD.FGHIJ..........
EMI	202	87-A50-322-080	C-COIL,S BK2125 LM252	ABCD.FGHIJ..........
EMI	201	87-A50-322-080	C-COIL,S BK2125 LM252	ABCD.FGHIJ..........
EMI	701	87-A50-322-080	C-COIL,S BK2125 LM252	ABCD.FGHIJ..........
FL	401	8Z-NF8-616-010	FL,SVA-11MM22	ABCD.FGHIJ..........
IC	201	8Z-NF8-729-010	C-IC,UPD780228GF-XXX	ABCD.FGHIJ..........
IC	251	87-A20-951-010	IC,TSOP1838RF1	ABCD.FGHIJ..........
IC	451	87-A21-265-040	C-IC,M62457FP	ABCD.FGHIJ..........
IC	601	87-A21-021-040	C-IC,BU2099FV	ABCD.FGHIJ..........
L	252	87-005-847-080	COIL,2.2UH(CECS)	ABCD.FGHIJ..........
L	251	87-005-847-080	COIL,2.2UH(CECS)	ABCD.FGHIJ..........
L	331	87-A50-434-010	COIL,CLK 4.19M(TOKO)	ABCD.FGHIJ..........
LED	311	87-A40-317-080	LED,SLR-342VCT31 RED	ABCD.FGHIJ..........
LED	611	87-A40-619-080	LED,SLR-56PT-TE7-W GRN	ABCD.FGHIJ..........
LED	634	87-A40-619-040	LED,SLR-56PT-T31-W GRN	ABCD.FGHIJ..........
LED	633	87-A40-619-040	LED,SLR-56PT-T31-W GRN	ABCD.FGHIJ..........
Q	207	87-A30-087-080	C-FET,2SK2158	ABCD.FGHIJ..........
Q	251	87-A30-074-080	C-TR,RT1P 141C	ABCD.FGHIJ..........
Q	303	87-A30-329-080	TR,CD1585BC	ABCD.FGHIJ..........
Q	311	87-026-610-080	TR,KTC3198GR	ABCD.FGHIJ..........
Q	312	87-A30-087-080	C-FET,2SK2158	ABCD.FGHIJ..........
Q	322	87-A30-073-080	C-TR,RT1N 141C	ABCD.FGHIJ..........
Q	323	87-A30-087-080	C-FET,2SK2158	ABCD.FGHIJ..........
Q	351	87-A30-318-080	TR,CSA952K	ABCD.FGHIJ..........
Q	352	87-A30-318-080	TR,CSA952K	ABCD.FGHIJ..........
S	406	87-A90-164-080	SW,TACT SKQAB(N)	ABCD.FGHIJ..........
S	402	87-A90-164-080	SW,TACT SKQAB(N)	ABCD.FGHIJ..........
S	401	87-A90-164-080	SW,TACT SKQAB(N)	ABCD.FGHIJ..........
S	407	87-A90-164-080	SW,TACT SKQAB(N)	ABCD.FGHIJ..........
S	403	87-A90-164-080	SW,TACT SKQAB(N)	ABCD.FGHIJ..........
S	428	87-A91-024-080	SW,TACT KSH0611BT	ABCD.FGHIJ..........
S	434	87-A91-024-080	SW,TACT KSH0611BT	ABCD.FGHIJ..........
SW	252	87-A90-535-010	SW,RTRY EC16B24304	ABCD.FGHIJ..........
SW	253	87-A90-950-010	SW,RTRY EC12E12504 ENCORDER	ABCD.FGHIJ..........
C	304	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	302	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	301	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	303	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	305	87-010-198-080	CAP, CHIP 0.022	ABCDEFGHIJ..........
C	308	87-010-263-080	CAP, ELECT 100-10V	ABCDEFGHIJ..........
C	307	87-010-263-080	CAP, ELECT 100-10V	ABCDEFGHIJ..........
C	309	87-010-318-080	C-CAP,S 47P-50 CH	ABCDEFGHIJ..........
C	314	87-010-187-080	CAP CHIP S5600P	ABCDEFGHIJ..........
C	313	87-010-187-080	CAP CHIP S5600P	ABCDEFGHIJ..........
C	315	87-010-263-080	CAP, ELECT 100-10V	ABCDEFGHIJ..........
C	310	87-010-318-080	C-CAP,S 47P-50 CH	ABCDEFGHIJ..........
C	317	87-010-546-080	CAP, ELECT 0.33-50V	ABCDEFGHIJ..........
C	318	87-010-546-080	CAP, ELECT 0.33-50V	ABCDEFGHIJ..........
C	311	87-010-598-080	C-CAP,S 0.068-16VRK	ABCDEFGHIJ..........
C	312	87-010-598-080	C-CAP,S 0.068-16VRK	ABCDEFGHIJ..........
C	327	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	360	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	399	87-012-140-080	CAP 470P	ABCDEFGHIJ..........
C	409	87-010-182-080	C-CAP,S 2200P-50 B	ABCDEFGHIJ..........
C	407	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	405	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	408	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	406	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	403	87-010-321-080	CHIP CAPACITOR,82P(J)	ABCDEFGHIJ..........
C	404	87-010-321-080	CHIP CAPACITOR,82P(J)	ABCDEFGHIJ..........
C	402	87-010-544-080	CAP, ELECT 0.1-50V	ABCDEFGHIJ..........
C	401	87-010-544-080	CAP, ELECT 0.1-50V	ABCDEFGHIJ..........
C	410	87-010-182-080	C-CAP,S 2200P-50 B	ABCDEFGHIJ..........
C	411	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	412	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	459	87-010-175-080	CAP 560P	ABCDEFGHIJ..........
C	458	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	455	87-010-183-080	C-CAP,S 2700P-50 B	ABCDEFGHIJ..........
C	454	87-010-183-080	C-CAP,S 2700P-50 B	ABCDEFGHIJ..........
C	453	87-010-183-080	C-CAP,S 2700P-50 B	ABCDEFGHIJ..........
C	456	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	451	87-010-198-080	CAP, CHIP 0.022	ABCDEFGHIJ..........
C	452	87-010-260-080	CAP, ELECT 47-25V	A...EF..IJ..........
C	452	87-010-382-080	CAP, ELECT 22-25V	.BCD..GH............
C	461	87-012-158-080	C-CAP,S 390P-50 CH	ABCDEFGHIJ..........
C	462	87-012-158-080	C-CAP,S 390P-50 CH	ABCDEFGHIJ..........
CN	301	87-A60-620-010	CONN,3P V 2MM JMT	ABCDEFGHIJ..........
CN	351	87-A60-625-010	CONN,8P V 2MM JMT	ABCDEFGHIJ..........

D	401	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
IC	301	87-017-888-080	IC,NJM4558MD	ABCDEFGHIJ..........
IC	401	87-017-888-080	IC,NJM4558MD	ABCDEFGHIJ..........
L	451	87-007-342-010	COIL,OSC 85K BIAS	ABCDEFGHIJ..........
Q	309	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	304	87-A30-090-080	FET,2SK2541	ABCDEFGHIJ..........
Q	303	87-A30-090-080	FET,2SK2541	ABCDEFGHIJ..........
Q	302	87-A30-091-080	FET,2SJ460	ABCDEFGHIJ..........
Q	308	87-A30-091-080	FET,2SJ460	ABCDEFGHIJ..........
Q	307	87-A30-091-080	FET,2SJ460	ABCDEFGHIJ..........
Q	305	87-A30-091-080	FET,2SJ460	ABCDEFGHIJ..........
Q	301	87-A30-091-080	FET,2SJ460	ABCDEFGHIJ..........
Q	306	87-A30-104-080	C-TR,RT1N 441C	ABCDEFGHIJ..........
Q	310	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	320	87-A30-087-080	C-FET,2SK2158	ABCDEFGHIJ..........
Q	444	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	443	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	451	87-026-610-080	TR,KTC3198GR	ABCDEFGHIJ..........
Q	455	87-A30-076-080	C-TR,2SC3052F	A...EF..IJ..........
Q	453	89-333-317-880	TR,2SC3331 (0.5W)	ABCDEFGHIJ..........
Q	454	89-333-317-880	TR,2SC3331 (0.5W)	ABCDEFGHIJ..........
R	392	87-012-349-080	C-CAP,S 1000P-50 CH	ABCDEFGHIJ..........
SFR	451	87-024-355-080	SFR,33K DIA6 H	ABCDEFGHIJ..........
SFR	452	87-024-355-080	SFR,33K DIA6 H	ABCDEFGHIJ..........
C	507	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	508	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	502	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	501	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	506	87-A11-010-080	CAP,M 0.082-50 J DE	ABCDEFGHIJ..........
C	505	87-A11-010-080	CAP,M 0.082-50 J DE	ABCDEFGHIJ..........
IC	501	87-A21-031-040	C-IC,BU4551BF	ABCDEFGHIJ..........
C	703	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	704	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	701	87-010-381-080	CAP, ELECT 330-16V	ABCDEFGHIJ..........
C	702	87-010-404-080	CAP, ELECT 4.7-50V	ABCDEFGHIJ..........
C	712	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	714	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	713	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	711	87-010-260-080	CAP, ELECT 47-25V	ABCDEFGHIJ..........
C	715	87-010-322-080	C-CAP,S 100P-50 CH	ABCDEFGHIJ..........
C	723	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	725	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	727	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	728	87-010-248-080	CAP, ELECT 220-10V	ABCDEFGHIJ..........
C	722	87-010-312-080	C-CAP,S 15P-50 CH	ABCDEFGHIJ..........
C	721	87-010-312-080	C-CAP,S 15P-50 CH	ABCDEFGHIJ..........
D	721	87-017-149-080	ZENER,HZS6A2L	ABCDEFGHIJ..........
D	722	87-020-465-080	DIODE,1SS133 (110MA)	A...EF..IJ..........
IC	721	87-070-127-110	IC,LC72131 D	ABCDEFGHIJ..........
Q	711	87-A30-234-080	TR,CSC4115BC	ABCDEFGHIJ..........
X	721	87-A70-061-010	VIB,XTAL 4.500MHZ CSA-309	ABCDEFGHIJ..........
C	758	87-010-149-080	C-CAP,S 5P-50 CH	ABCDEFGHIJ..........
C	756	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	755	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	757	87-010-318-080	C-CAP,S 47P-50 CH	ABCDEFGHIJ..........
C	759	87-012-154-080	C-CAP,S 150P-50 CH	...D..G.............
C	759	87-012-156-080	C-CAP,S 220P-50 CH	.BC....H............
C	763	87-010-194-080	CAP, CHIP 0.047	ABCDEFGHIJ..........
C	761	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	766	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	768	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	765	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	764	87-010-319-080	C-CAP,S 56P-50 CH	.BCD..GH............
C	764	87-010-322-080	C-CAP,S 100P-50 CH	A...EF...J..........
C	767	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	769	87-010-408-080	CAP, ELECT 47-50V	ABCDEFGHIJ..........
C	760	87-012-154-080	C-CAP,S 150P-50 CH	...D..G.............
C	760	87-012-156-080	C-CAP,S 220P-50 CH	.BC....H............
C	772	87-010-194-080	CAP, CHIP 0.047	ABCDEFGHIJ..........
C	773	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	774	87-010-263-080	CAP, ELECT 100-10V	ABCDEFGHIJ..........
C	777	87-010-400-080	CAP, ELECT 0.47-50V	ABCDEFGHIJ..........
C	779	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	778	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	775	87-010-404-080	CAP, ELECT 4.7-50V	ABCDEFGHIJ..........
C	771	87-010-407-080	CAP, ELECT 33-50V	ABCDEFGHIJ..........
C	770	87-015-821-080	C-CAP 0.047	ABCDEFGHIJ..........
C	789	87-010-179-080	CAP,CHIP S B1200P	ABCDEFGHIJ..........
C	787	87-010-186-080	CAP,CHIP 4700P	A...EF..IJ..........
C	788	87-010-186-080	CAP,CHIP 4700P	A...EF..IJ..........
C	780	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	784	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	786	87-010-400-080	CAP, ELECT 0.47-50V	ABCDEFGHIJ..........
C	785	87-010-400-080	CAP, ELECT 0.47-50V	ABCDEFGHIJ..........
C	781	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	782	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	783	87-015-819-080	CAPACITOR,0.01	ABCDEFGHIJ..........
C	793	87-010-177-080	C-CAP,S 820P-50 SL	.BCD..GH............
C	790	87-010-179-080	CAP,CHIP S B1200P	ABCDEFGHIJ..........
C	797	87-010-180-080	C-CER 1500P	A...EF..IJ..........
C	798	87-010-180-080	C-CER 1500P	A...EF..IJ..........
C	797	87-010-181-080	CAP,CHIP S 1800P	...D..G.............

C	798	87-010-181-080	CAP,CHIP S 1800P	...D..G.............
C	798	87-010-183-080	C-CAP,S 2700P-50 B	.BC....H............
C	797	87-010-183-080	C-CAP,S 2700P-50 B	.BC....H............
C	799	87-010-194-080	CAP, CHIP 0.047	ABCDEFGHIJ..........
C	796	87-010-403-080	CAP, ELECT 3.3-50V	ABCDEFGHIJ..........
C	791	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	794	87-010-406-080	CAP, ELECT 22-50	ABCDEFGHIJ..........
C	795	87-010-596-080	CAP, S 0.047-16	ABCDEFGHIJ..........
C	793	87-A11-523-080	C-CAP,S 1200P-50 J B	A...EF..IJ..........
D	771	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
IC	771	87-A20-913-010	IC,LA1837NL	ABCDEFGHIJ..........
L	771	87-A50-266-010	COIL,FM DET-2N(TOK)	ABCDEFGHIJ..........
L	772	87-A90-052-010	FLTR,CFMT-450A(TOK)	...D................
L	772	87-A91-110-010	FLTR,PCFJZH-450 (TOK)	ABC.EFGHIJ..........
L	781	87-005-847-080	COIL,2.2UH(CECS)	ABCDEFGHIJ..........
X	771	87-030-354-010	VIB,CF BFU 450C	...D................
C	859	87-010-197-080	CAP, CHIP 0.01 DM	........I...........
C	865	87-010-196-080	CHIP CAPACITOR,0.1-25	........I...........
C	867	87-010-197-080	CAP, CHIP 0.01 DM	........I...........
C	869	87-010-314-080	C-CAP,S 22P-50V	........I...........
C	868	87-010-316-080	C-CAP,S 33P-50 CH	........I...........
C	866	87-010-405-080	CAP, ELECT 10-50V	........I...........
C	864	87-010-405-080	CAP, ELECT 10-50V	........I...........
C	863	87-012-140-080	CAP 470P	........I...........
C	862	87-012-156-080	C-CAP,S 220P-50 CH	........I...........
C	861	87-012-156-080	C-CAP,S 220P-50 CH	........I...........
IC	851	87-A20-440-040	C-IC,BU1920FS	........I...........
Q	852	87-A30-073-080	C-TR,RT1N 141C	........I...........
Q	853	87-A30-076-080	C-TR,2SC3052F	........I...........
X	851	87-A70-091-010	VIB,XTAL 4.332MHZ CSA-309	........I...........
C	829	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	828	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	820	87-010-408-080	CAP, ELECT 47-50V	ABCDEFGHIJ..........
C	942	87-010-146-080	CHIP CAP 2PF	A...EF..IJ..........
C	940	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	947	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	941	87-010-314-080	C-CAP,S 22P-50V	...D................
C	946	87-010-971-080	C-CAP,S 4700P-50 B J	...D................
C	948	87-012-140-080	CAP 470P	A...EF..IJ..........
C	959	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	952	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	956	87-010-263-080	CAP, ELECT 100-10V	...D................
C	957	87-010-311-080	CAP 12P	A...EF..IJ..........
C	954	87-010-400-080	CAP, ELECT 0.47-50V	...D................
C	961	87-010-152-080	C-CAP,S 8P-50 CH	.BC...GH............
C	962	87-010-401-080	CAP, ELECT 1-50V	A..DEF..IJ..........
C	964	87-010-854-080	C-CAP,S 560PCH	...D................
C	981	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z	ABCDEFGHIJ..........
CF	802	82-785-747-010	CF MS2 GHY R	A...EF..IJ..........
CF	801	87-008-261-010	FILTER, SFE10.7MA5-A	.BCD..GH............
CF	802	87-008-261-010	FILTER, SFE10.7MA5-A	.BCD..GH............
CF	801	87-008-423-010	CERAMIC FILTER, SFE10.7	A...EF..IJ..........
D	944	87-020-465-080	DIODE,1SS133 (110MA)	A..DEF..IJ..........
D	942	87-A40-270-080	C-DIODE,MC2838	A...EF..IJ..........
D	981	87-A40-618-080	VARI-CAP,SVC 348(S/T)	...D................
FFE	801	A8-6ZA-191-130	6ZA-1 FEENM	.....F..IJ..........
FFE	801	A8-6ZA-193-030	6ZA-1 FEVNM	......G.............
FFE	801	A8-6ZA-195-030	6ZA-1 YFEENM	....
FFE	801	A8-6ZA-19C-170	6ZA-1 YFEENC	A...E...............
FFE	801	A8-8ZA-190-030	8ZA-1 FEUNM	...D...H............
FFE	801	A8-8ZA-191-030	8ZA-1 YFEUNM	.B..................
FFE	801	A8-8ZA-192-070	8ZA-1 FEUNC	....
FFE	801	A8-8ZA-193-070	8ZA-1 YFEUNC	..C.................
J	801	87-A60-202-010	TERMINAL,ANT 4P MSP-154V-02	.BCD..GH............
J	802	87-A60-403-010	TERMINAL,ANT PAL 2P HSP-312V05	A...EF..IJ..........
J	940	81-754-629-010	CONNECTOR, 2P	...D................
JW	811	87-008-372-080	FILTER, EMI BL OIRNI	.BC....H............
L	832	87-005-847-080	COIL,2.2UH(CECS)	ABCDEFGHIJ..........
L	942	87-A50-019-010	COIL,OSC LW(COI)	A...EF..IJ..........
L	941	87-A50-020-010	COIL,ANT LW(COI)	A...EF..IJ..........
L	941	87-A50-022-010	COIL,ANT SW(COI)	...D................
L	944	87-A50-159-010	COIL,10MH K C2B	...D................
L	942	87-A50-173-010	COIL,OSC SW-N(COI)	...D................
L	943	87-A50-522-080	COIL,1MH K CEC	...D................
L	982	87-A50-430-010	COIL,ANT MW(3BSW)	...D................
L	983	87-A50-431-010	COIL,OSC MW(3BSW)	...D................
L	981	8Z-ZA1-650-010	COIL,AM PACK4C (TOK)	.BC...GH............
L	981	8Z-ZA1-665-010	COIL,AM PACK 2(TOK)	A...EF..IJ..........
Q	807	87-A30-072-080	C-TR,RT1P 144C	ABCDEFGHIJ..........
Q	805	89-327-143-080	TR,2SC2714 (0.1W)	ABCDEFGHIJ..........
Q	942	87-A30-075-080	C-TR,2SA1235F	...D................
Q	943	87-A30-075-080	C-TR,2SA1235F	...D................
Q	944	87-A30-076-080	C-TR,2SC3052F	...D................
Q	945	87-A30-076-080	C-TR,2SC3052F	...D................
Q	949	87-A30-076-080	C-TR,2SC3052F	...D................
Q	948	87-A30-086-070	C-TR,CSD1306E	A..DEF..IJ..........
Q	951	87-A30-074-080	C-TR,RT1P 141C	A..DEF..IJ..........
Q	953	89-503-602-080	C-FET,2SK360E	A..DEF..IJ..........
TC	941	87-011-220-080	TRIMMER CAP 20P VTC	...D................
TC	942	87-011-221-080	CAP, TRIMMER 30P	A..DEF..IJ..........
CNA	1	8Z-NF8-670-110	CONN ASSY,7P 480 VH	....
		87-067-703-010	TAPPING SCREW, BVT2+3-10	.BCDEF.H............

C	4	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	3	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	5	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	6	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	2	87-012-369-080	C-CAP,S 0.047-50F	ABCDEFGHIJ..........
C	1	87-012-369-080	C-CAP,S 0.047-50F	ABCDEFGHIJ..........
C	9	87-A10-520-000	CAP,E 3300-35 M SMG	ABCDEFGHIJ..........
C	10	87-A10-520-000	CAP,E 3300-35 M SMG	ABCDEFGHIJ..........
C	27	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	29	87-010-247-080	CAP, ELECT 100-50V	ABCDEFGHIJ..........
C	26	87-010-263-080	CAP, ELECT 100-10V	ABCDEFGHIJ..........
C	21	87-010-385-080	CAP, ELECT 220-25V	ABCDEFGHIJ..........
C	22	87-010-385-080	CAP, ELECT 220-25V	ABCDEFGHIJ..........
C	25	87-010-430-080	CAP, ELECT 100-63	ABCDEFGHIJ..........
C	36	87-010-198-080	CAP, CHIP 0.022	ABCDEFGHIJ..........
C	35	87-010-198-080	CAP, CHIP 0.022	ABCDEFGHIJ..........
C	31	87-010-235-080	CAP,E 470-16 SME	ABCDEFGHIJ..........
C	30	87-010-381-080	CAP, ELECT 330-16V	ABCDEFGHIJ..........
C	33	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	32	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	34	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	40	87-010-112-080	CAP, ELECT 100-16V	ABCDEFGHIJ..........
C	51	87-010-180-080	C-CER 1500P	ABCDEFGHIJ..........
C	50	87-010-182-080	C-CAP,S 2200P-50 B	ABCDEFGHIJ..........
C	61	87-010-260-080	CAP, ELECT 47-25V	ABCDEFGHIJ..........
C	62	87-010-403-080	CAP, ELECT 3.3-50V	ABCDEFGHIJ..........
CNA	1	8Z-NF8-669-110	CONN ASSY,9P VH	ABCDEFGHIJ..........
D	9	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	8	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	6	87-070-274-080	DIODE,1N4003 SEM	ABCDEFGHIJ..........
D	3	87-070-274-080	DIODE,1N4003 SEM	ABCDEFGHIJ..........
D	4	87-070-274-080	DIODE,1N4003 SEM	ABCDEFGHIJ..........
D	5	87-070-274-080	DIODE,1N4003 SEM	ABCDEFGHIJ..........
D	7	87-A40-383-080	ZENER,MTZJ30A	ABCDEFGHIJ..........
D	1	87-A40-547-090	DIODE,D5SBA20	ABCDEFGHIJ..........
D	10	87-A40-345-080	ZENER,MTZJ10C	ABCDEFGHIJ..........
D	24	87-017-931-080	ZENER,MTZJ5.6B	ABCDEFGHIJ..........
D	20	87-017-931-080	ZENER,MTZJ5.6B	ABCDEFGHIJ..........
D	22	87-A40-001-080	ZENER,MTZJ12C	ABCDEFGHIJ..........
D	25	87-A40-335-080	ZENER,MTZJ11C T-72	ABCDEFGHIJ..........
D	23	87-A40-393-090	DIODE,1N5402GW(F20)	ABCDEFGHIJ..........
D	21	87-A40-393-090	DIODE,1N5402GW(F20)	ABCDEFGHIJ..........
D	64	87-070-274-080	DIODE,1N4003 SEM	ABCDEFGHIJ..........
D	62	87-A40-269-080	C-DIODE,MC2836	ABCDEFGHIJ..........
D	61	87-A40-270-080	C-DIODE,MC2838	ABCDEFGHIJ..........
JW	48	87-008-372-080	FILTER, EMI BL OIRNI	A..DEFG.IJ..........
Q	1	87-026-609-080	TR,KTA1266GR	ABCDEFGHIJ..........
Q	2	87-026-609-080	TR,KTA1266GR	ABCDEFGHIJ..........
Q	5	87-026-610-080	TR,KTC3198GR	ABCDEFGHIJ..........
Q	8	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	6	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	9	87-A30-234-080	TR,CSC4115BC	ABCDEFGHIJ..........
Q	3	89-213-702-010	TR,2SB1370 (1.8W)	ABCDEFGHIJ..........
Q	13	87-A30-073-080	C-TR,RT1N 141C	ABCDEFGHIJ..........
Q	16	87-A30-186-010	FET,2SK3053	ABCDEFGHIJ..........
Q	15	87-A30-186-010	FET,2SK3053	ABCDEFGHIJ..........
Q	61	87-A30-074-080	C-TR,RT1P 141C	A..DEFGHIJ..........
Q	66	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	64	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	65	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	63	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	67	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
R	20	87-A00-261-080	RES,M/F 0.56-1W J	.BC.................
WH	1	87-A90-510-010	HLDR,WIRE 2.5-9P	ABCDEFGHIJ..........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	ABCDEFGHIJ..........
C	102	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	101	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	109	87-010-322-080	C-CAP,S 100P-50 CH	ABCDEFGHIJ..........
C	104	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	103	87-010-405-080	CAP, ELECT 10-50V	ABCDEFGHIJ..........
C	107	87-010-408-080	CAP, ELECT 47-50V	ABCDEFGHIJ..........
C	108	87-010-408-080	CAP, ELECT 47-50V	ABCDEFGHIJ..........
C	112	87-010-260-080	CAP, ELECT 47-25V	ABCDEFGHIJ..........
C	111	87-010-260-080	CAP, ELECT 47-25V	ABCDEFGHIJ..........
C	110	87-010-322-080	C-CAP,S 100P-50 CH	ABCDEFGHIJ..........
C	117	87-010-400-080	CAP, ELECT 0.47-50V	ABCDEFGHIJ..........
C	118	87-010-400-080	CAP, ELECT 0.47-50V	ABCDEFGHIJ..........
C	114	87-A10-946-080	C-CAP,S 220P-100 J CH	ABCDEFGHIJ..........
C	113	87-A10-946-080	C-CAP,S 220P-100 J CH	ABCDEFGHIJ..........
C	124	87-010-176-080	C-CAP,S 680P-50 SL	ABCDEFGHIJ..........
C	123	87-010-176-080	C-CAP,S 680P-50 SL	ABCDEFGHIJ..........
C	121	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	122	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	129	87-010-191-080	C-CAP,S 0.015-50 F	ABCDEFGHIJ..........
C	125	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	127	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	126	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	128	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	130	87-010-191-080	C-CAP,S 0.015-50 F	ABCDEFGHIJ..........
C	131	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	133	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	132	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........

ELECTRICAL PARTS LIST-6/12

D	108	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	107	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	116	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	117	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	111	87-A40-270-080	C-DIODE,MC2838	ABCDEFGHIJ..........
J	203	87-A60-238-010	TERMINAL,SP 4P (MSC)	ABCDEFGHIJ..........
J	201	87-A60-929-010	JACK,DIA6.3 BLK ST W/S TAI	ABCDEFGHIJ..........
L	101	87-003-383-010	COIL,1UH-S	ABCDEFGHIJ..........
L	102	87-003-383-010	COIL,1UH-S	ABCDEFGHIJ..........
Q	105	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	104	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	106	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	103	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	107	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	109	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	108	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	110	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	111	87-A30-190-080	TR,CC5551	ABCDEFGHIJ..........
Q	112	87-A30-190-080	TR,CC5551	ABCDEFGHIJ..........
Q	119	87-A30-215-010	TR,2SD2025	ABCDEFGHIJ..........
Q	129	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	128	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	123	87-A30-106-070	C-TR,CMBT5551	ABCDEFGHIJ..........
Q	124	87-A30-106-070	C-TR,CMBT5551	ABCDEFGHIJ..........
Q	126	87-A30-107-070	C-TR,CMBT5401	ABCDEFGHIJ..........
Q	121	87-A30-214-010	TR,2SB1344	ABCDEFGHIJ..........
Q	122	87-A30-214-010	TR,2SB1344	ABCDEFGHIJ..........
Q	120	87-A30-215-010	TR,2SD2025	ABCDEFGHIJ..........
Q	130	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	131	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
R	131	87-A00-257-080	RES,M/F 0.15-1W J	ABCDEFGHIJ..........
R	132	87-A00-257-080	RES,M/F 0.15-1W J	ABCDEFGHIJ..........
TH	101	87-A91-042-080	C-THMS,100K 55001	A..DEFGHIJ..........
TH	102	87-A91-042-080	C-THMS,100K 55001	A..DEFGHIJ..........
C	204	87-010-177-080	C-CAP,S 820P-50 SL	ABCDEFGHIJ..........
C	203	87-010-177-080	C-CAP,S 820P-50 SL	ABCDEFGHIJ..........
C	209	87-010-403-080	CAP, ELECT 3.3-50V	ABCDEFGHIJ..........
C	211	87-010-181-080	CAP,CHIP S 1800P	ABCDEFGHIJ..........
C	212	87-010-181-080	CAP,CHIP S 1800P	ABCDEFGHIJ..........
C	217	87-010-260-080	CAP, ELECT 47-25V	ABCDEFGHIJ..........
C	218	87-010-260-080	CAP, ELECT 47-25V	ABCDEFGHIJ..........
C	210	87-010-403-080	CAP, ELECT 3.3-50V	ABCDEFGHIJ..........
C	214	87-010-403-080	CAP, ELECT 3.3-50V	ABCDEFGHIJ..........
C	213	87-010-403-080	CAP, ELECT 3.3-50V	ABCDEFGHIJ..........
C	219	87-A10-946-080	C-CAP,S 220P-100 J CH	ABCDEFGHIJ..........
C	227	87-010-186-080	CAP,CHIP 4700P	ABCDEFGHIJ..........
C	228	87-010-186-080	CAP,CHIP 4700P	ABCDEFGHIJ..........
C	229	87-010-993-080	C-CAP,S 0.056-25 B	ABCDEFGHIJ..........
C	226	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	225	87-012-368-080	C-CAP,S 0.1-50 F	ABCDEFGHIJ..........
C	220	87-A10-946-080	C-CAP,S 220P-100 J CH	ABCDEFGHIJ..........
C	234	87-010-190-080	S CHIP F 0.01	ABCDEFGHIJ..........
C	233	87-010-190-080	S CHIP F 0.01	ABCDEFGHIJ..........
C	232	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	239	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	231	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDEFGHIJ..........
C	237	87-010-322-080	C-CAP,S 100P-50 CH	ABCDEFGHIJ..........
C	238	87-010-322-080	C-CAP,S 100P-50 CH	ABCDEFGHIJ..........
C	230	87-010-993-080	C-CAP,S 0.056-25 B	ABCDEFGHIJ..........
C	236	87-016-285-080	CAP,E 47-100SME	ABCD..G.IJ..........
C	235	87-016-285-080	CAP,E 47-100SME	ABCD..G.IJ..........
C	236	87-A10-121-080	CAP,E 47-100 REA	....EF..............
C	235	87-A10-121-080	CAP,E 47-100 REA	....EF..............
C	243	87-010-407-080	CAP, ELECT 33-50V	ABCDEFGHIJ..........
C	240	87-010-407-080	CAP, ELECT 33-50V	ABCDEFGHIJ..........
D	208	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	207	87-020-465-080	DIODE,1SS133 (110MA)	ABCDEFGHIJ..........
D	211	87-A40-270-080	C-DIODE,MC2838	ABCDEFGHIJ..........
J	204	87-A60-750-010	JACK,PIN 4P R/W BLUE	ABCDEFG.IJ..........
J	205	87-A60-751-010	JACK,PIN 2P R/W BLUE	.......H............
L	202	87-003-383-010	COIL,1UH-S	ABCDEFGHIJ..........
L	201	87-003-383-010	COIL,1UH-S	ABCDEFGHIJ..........
Q	205	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	204	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	206	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	203	87-A30-075-080	C-TR,2SA1235F	ABCDEFGHIJ..........
Q	208	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	207	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	209	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	210	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	219	87-A30-106-070	C-TR,CMBT5551	ABCDEFGHIJ..........
Q	211	87-A30-190-080	TR,CC5551	ABCDEFGHIJ..........
Q	212	87-A30-190-080	TR,CC5551	ABCDEFGHIJ..........
Q	217	87-A30-255-010	TR,2SB1342	ABCDEFGHIJ..........
Q	218	87-A30-255-010	TR,2SB1342	ABCDEFGHIJ..........
Q	215	87-A30-256-010	TR,2SD1933	ABCDEFGHIJ..........
Q	216	87-A30-256-010	TR,2SD1933	ABCDEFGHIJ..........
Q	226	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	224	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	225	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	227	87-A30-076-080	C-TR,2SC3052F	ABCDEFGHIJ..........
Q	220	87-A30-106-070	C-TR,CMBT5551	ABCDEFGHIJ..........

R	232	87-A00-258-080	RES,M/F 0.22-1W J	ABCDEFGHIJ..........
R	234	87-A00-258-080	RES,M/F 0.22-1W J	ABCDEFGHIJ..........
R	233	87-A00-258-080	RES,M/F 0.22-1W J	ABCDEFGHIJ..........
R	231	87-A00-258-080	RES,M/F 0.22-1W J	ABCDEFGHIJ..........
R	266	87-A00-258-080	RES,M/F 0.22-1W J	ABCDEFGHIJ..........
R	265	87-A00-258-080	RES,M/F 0.22-1W J	ABCDEFGHIJ..........
C	606	87-010-179-080	CAP,CHIP S B1200P	ABCDEFGHIJ..........
C	605	87-010-179-080	CAP,CHIP S B1200P	ABCDEFGHIJ..........
C	609	87-010-213-080	C-CAP,S 0.015-50 B	ABCDEFGHIJ..........
C	615	87-010-154-080	CAP CHIP 10P	ABCDEFGHIJ..........
C	610	87-010-213-080	C-CAP,S 0.015-50 B	ABCDEFGHIJ..........
C	616	87-010-385-080	CAP, ELECT 220-25V	ABCDEFGHIJ..........
C	617	87-010-385-080	CAP, ELECT 220-25V	ABCDEFGHIJ..........
C	612	87-010-546-080	CAP, ELECT 0.33-50V	ABCDEFGHIJ..........
C	611	87-010-546-080	CAP, ELECT 0.33-50V	ABCDEFGHIJ..........
C	614	87-010-546-080	CAP, ELECT 0.33-50V	ABCDEFGHIJ..........
C	613	87-010-546-080	CAP, ELECT 0.33-50V	ABCDEFGHIJ..........
C	622	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	623	87-010-401-080	CAP, ELECT 1-50V	ABCDEFGHIJ..........
C	631	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	632	87-010-178-080	CHIP CAP 1000P	ABCDEFGHIJ..........
C	669	87-010-322-080	C-CAP,S 100P-50 CH	.BCD...H............
C	669	87-012-140-080	CAP 470P	A...EFG.IJ..........
C	673	87-010-182-080	C-CAP,S 2200P-50 B	...D...H............
C	671	87-010-196-080	CHIP CAPACITOR,0.1-25	...D...H............
C	672	87-010-196-080	CHIP CAPACITOR,0.1-25	...D...H............
C	678	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	677	87-010-197-080	CAP, CHIP 0.01 DM	ABCDEFGHIJ..........
C	670	87-010-322-080	C-CAP,S 100P-50 CH	.BCD...H............
C	670	87-012-140-080	CAP 470P	A...EFG.IJ..........
CN	602	87-A60-131-010	CONN,6P V FE	ABCDEFGHIJ..........
CN	601	88-NF9-657-010	CONN,30P H BLK TYK-B(X)	ABCDEFGHIJ..........
D	601	87-A40-466-080	ZENER,MTZJ2.7A	ABCDEFGHIJ..........
D	602	87-A40-466-080	ZENER,MTZJ2.7A	ABCDEFGHIJ..........
IC	601	87-A21-111-040	C-IC,M62495FP	ABCDEFGHIJ..........
J	602	87-A60-881-010	JACK,PIN 2P MSP 242V05 PBSN	ABCDEFGHIJ..........
JW	601	87-008-372-080	FILTER, EMI BL OIRNI	ABCDEFGHIJ..........
C	555	87-010-196-080	CHIP CAPACITOR,0.1-25	...D...H............
C	553	87-010-196-080	CHIP CAPACITOR,0.1-25	...D...H............
C	551	87-010-220-080	C-CAP,S 0.018-25 B	...D...H............
C	550	87-010-956-080	CHIP-CAP,S 0.068-25B	...D...H............
C	591	87-010-196-080	CHIP CAPACITOR,0.1-25	...D...H............
C	590	87-010-196-080	CHIP CAPACITOR,0.1-25	...D...H............
IC	551	87-017-726-080	IC,BU4052 BCF	...D...H............
IC	550	87-A21-362-040	C-IC,NJM2100M(TE2)	...D...H............
Q	590	87-A30-076-080	C-TR,2SC3052F	...D...H............
Q	591	87-A30-076-080	C-TR,2SC3052F	...D...H............
C	503	87-010-112-040	CAP,E 100-16	..........K.........
C	508	87-010-178-080	CHIP CAP 1000P	..........K.........
C	502	87-010-186-080	CAP,CHIP 4700P	..........K.........
C	506	87-010-320-080	CHIP CAP 68P	..........K.........
C	504	87-010-405-040	CAP,E 10-50	..........K.........
C	507	87-010-544-040	CAP,E 0.1-50 SME	..........K.........
C	509	87-010-544-040	CAP,E 0.1-50 SME	..........K.........
C	505	87-010-546-040	CAP,E 0.33-50	..........K.........
J	501	87-A60-651-010	JACK,3.5MONO	..........K.........
Q	504	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	502	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	501	87-A30-087-080	C-FET,2SK2158	..........K.........
VR	501	87-NB7-602-010	VR,RTRY 10KAX1 1 V	..........K.........
C	1	87-010-387-080	CAP,E 470-25 SME	..........K.........
C	4	87-010-403-080	CAP, ELECT 3.3-50V	....
C	2	87-018-209-080	CAP, CER 0.1-50V	....
C	9	87-A10-520-000	CAP,E 3300-35 M SMG	..........K.........
C	8	87-A10-520-000	CAP,E 3300-35 M SMG	..........K.........
C	5	87-A11-148-080	CAP,TC U 0.1-50 Z F	..........K.........
C	6	87-A11-148-080	CAP,TC U 0.1-50 Z F	..........K.........
C	4	87-A11-148-080	CAP,TC U 0.1-50 Z F	..........K.........
C	3	87-A11-148-080	CAP,TC U 0.1-50 Z F	..........K.........
C	31	87-010-403-040	CAP,E 3.3-50 SME	..........K.........
CN	1	87-A60-850-010	CONN,7P V VH	....
CN	1	87-A60-851-010	CONN,9P V VH	..........K.........
D	6	87-A40-548-090	DIODE,D3SBA20	..........K.........
D	31	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	32	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
PR	1	87-026-682-080	PROTECTOR,10A 60V491	..........K.........
PR	2	87-026-682-080	PROTECTOR,10A 60V491	..........K.........
PR	1	87-A91-276-080	FUSE,125MA 125V F 251	....
PT	2	8Z-NF8-661-010	PT,SUB ZNF-8(U)	....
PT	2	8Z-NF8-662-010	PT,SUB ZNF-8(E)	....
PT	2	8Z-NF8-663-010	PT,SUB ZNF-8(H)	..........K.........
Q	31	87-026-245-080	TR,DTC114ES	..........K.........
Q	32	87-A30-198-080	TR,KTC3199GR	..........K.........
RY	2	87-A90-976-010	RELAY,AC12V SDT-S-112LMR	....
RY	1	87-A91-281-010	RELAY,AC DC12V OSA-SS-212DM5	..........K.........
S	1	87-A90-165-010	SW,SL 1-2-3 SWS2301	..........K.........
T	2	87-A60-317-010	TERMINAL, 1P MSC	..........K.........
T	1	87-A60-317-010	TERMINAL, 1P MSC	..........K.........
C	901	87-016-462-080	C-CAP,S 1-16 F	....
D	901	87-A40-270-080	C-DIODE,MC2838	....
Q	902	87-A30-087-080	C-FET,2SK2158	....
Q	901	87-A30-087-080	C-FET,2SK2158	....
		88-NF8-205-010	GUIDE,FL	..........K.........

*		8Z-NF8-201-110	GUIDE,OPE	..........K.........
*		8Z-NF8-202-010	GUIDE,FUN	..........K.........
C	201	87-012-140-080	CAP 470P	..........K.........
C	203	87-012-157-080	C-CAP,S 330P-50 CH	..........K.........
C	211	87-012-157-080	C-CAP,S 330P-50 CH	..........K.........
C	254	87-010-194-080	CAP, CHIP 0.047	..........K.........
C	252	87-010-198-080	CAP, CHIP 0.022	..........K.........
C	251	87-015-699-040	CAP,E 10-50 7L	..........K.........
C	256	87-015-699-040	CAP,E 10-50 7L	..........K.........
C	259	87-015-699-040	CAP,E 10-50 7L	..........K.........
C	255	87-A10-797-040	CAP,E 47-35 M 5L SRM	..........K.........
C	260	87-010-198-080	CAP, CHIP 0.022	..........K.........
C	272	87-015-690-040	CAP,E 22-35 7L	....
C	301	87-010-182-080	C-CAP,S 2200P-50 B	..........K.........
C	302	87-010-182-080	C-CAP,S 2200P-50 B	..........K.........
C	311	87-010-194-080	CAP, CHIP 0.047	..........K.........
C	314	87-010-194-080	CAP, CHIP 0.047	..........K.........
C	312	87-010-405-040	CAP,E 10-50	..........K.........
C	324	87-010-194-080	CAP, CHIP 0.047	..........K.........
C	325	87-010-263-040	CAP,E 100-10	..........K.........
C	322	87-015-694-040	E/CAP 0.47-50	..........K.........
C	323	87-016-459-040	CAP,E 470-10 SMG	..........K.........
C	332	87-010-178-080	CHIP CAP 1000P	..........K.........
C	334	87-010-312-080	C-CAP,S 15P-50 CH	..........K.........
C	333	87-012-140-080	CAP 470P	..........K.........
C	335	87-012-140-080	CAP 470P	..........K.........
C	338	87-012-155-080	C-CAP 180P-50CH	..........K.........
C	339	87-012-156-080	C-CAP,S 220P-50 CH	..........K.........
C	341	87-010-194-080	CAP, CHIP 0.047	..........K.........
C	340	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
C	351	87-010-382-040	CAP,E 22-25 SME	..........K.........
C	401	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
C	455	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	457	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	456	87-012-158-080	C-CAP,S 390P-50 CH	..........K.........
C	601	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	604	87-010-322-080	C-CAP,S 100P-50 CH	..........K.........
C	701	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
CON	102	87-099-015-010	CONN,13P 6216V	..........K.........
CON	101	88-NF9-658-010	CONN,30P BLK TYK-B(P)	..........K.........
CON	301	87-099-013-010	CONN,11P 6216 V	....
CON	301	87-099-017-010	CONN, 15P 6216 V	..........K.........
D	208	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	311	87-A40-509-080	ZENER,MTZJ6.8C	..........K.........
D	452	87-017-932-080	ZENER,MTJ6.2B	..........K.........
EMI	201	87-008-372-080	FILTER, EMI BL OIRNI	..........K.........
EMI	202	87-A50-322-080	C-COIL,S BK2125 LM252	..........K.........
EMI	701	87-A50-322-080	C-COIL,S BK2125 LM252	..........K.........
FL	401	8Z-NF8-616-010	FL,SVA-11MM22	..........K.........
IC	201	8Z-NF8-675-010	C-IC,UPD780228GF-037-3BA	....
IC	201	8Z-NF8-676-010	C-IC,UPD780228GF-045-3BA	..........K.........
IC	251	87-A20-951-010	IC,TSOP1838RF1	..........K.........
IC	451	87-A21-023-040	C-IC,BA3835F	..........K.........
IC	601	87-A21-021-040	C-IC,BU2099FV	..........K.........
L	251	87-005-847-080	COIL,2.2UH(CECS)	....
L	252	87-005-847-080	COIL,2.2UH(CECS)	....
L	331	87-A50-434-010	COIL,CLK 4.19M(TOKO)	..........K.........
LED	311	87-A40-317-080	LED,SLR-342VCT31 RED	..........K.........
LED	611	87-A40-619-080	LED,SLR-56PT-TE7-W GRN	..........K.........
LED	633	87-A40-619-040	LED,SLR-56PT-T31-W GRN	..........K.........
LED	634	87-A40-619-040	LED,SLR-56PT-T31-W GRN	..........K.........
Q	207	87-A30-087-080	C-FET,2SK2158	..........K.........
Q	251	87-A30-074-080	C-TR,RT1P 141C	..........K.........
Q	301	87-A30-067-080	C-TR,2SA 1298Y	..........K.........
Q	302	87-A30-067-080	C-TR,2SA 1298Y	..........K.........
Q	302	87-A30-159-080	C-TR,KTA1298Y	....
Q	301	87-A30-159-080	C-TR,KTA1298Y	....
Q	303	87-A30-329-080	TR,CD1585BC	..........K.........
Q	311	87-026-610-080	TR,KTC3198GR	..........K.........
Q	312	87-A30-087-080	C-FET,2SK2158	..........K.........
Q	322	87-A30-073-080	C-TR,RT1N 141C	..........K.........
Q	323	87-A30-087-080	C-FET,2SK2158	..........K.........
S	406	87-A90-164-080	SW,TACT SKQAB(N)	..........K.........
S	403	87-A90-164-080	SW,TACT SKQAB(N)	..........K.........
S	407	87-A90-164-080	SW,TACT SKQAB(N)	..........K.........
S	402	87-A90-164-080	SW,TACT SKQAB(N)	..........K.........
S	401	87-A90-164-080	SW,TACT SKQAB(N)	..........K.........
S	434	87-A91-024-080	SW,TACT KSH0611BT	..........K.........
SW	252	87-A90-535-010	SW,RTRY EC16B24304	..........K.........
SW	253	87-A90-950-010	SW,RTRY EC12E12504 ENCORDER	..........K.........
C	309	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	301	87-010-318-080	C-CAP,S 47P-50 CH	..........K.........
C	302	87-010-318-080	C-CAP,S 47P-50 CH	..........K.........
C	306	87-012-145-080	CAP, CHIP S 270P CH	..........K.........
C	305	87-012-145-080	CAP, CHIP S 270P CH	..........K.........
C	303	87-012-157-080	C-CAP,S 330P-50 CH	..........K.........
C	304	87-012-157-080	C-CAP,S 330P-50 CH	..........K.........
C	313	87-010-178-080	CHIP CAP 1000P	..........K.........
C	314	87-010-178-080	CHIP CAP 1000P	..........K.........
C	315	87-010-178-080	CHIP CAP 1000P	..........K.........
C	316	87-010-178-080	CHIP CAP 1000P	..........K.........
C	313	87-010-180-080	C-CER 1500P	....

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C	314	87-010-180-080	C-CER 1500P	....
C	315	87-010-182-080	C-CAP,S 2200P-50 B	....
C	316	87-010-182-080	C-CAP,S 2200P-50 B	....
C	310	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	312	87-010-198-080	CAP, CHIP 0.022	..........K.........
C	311	87-010-198-080	CAP, CHIP 0.022	..........K.........
C	324	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	325	87-010-370-080	CAP,E 330-6.3 SME	..........K.........
C	328	87-010-404-080	CAP, ELECT 4.7-50V	..........K.........
C	327	87-010-404-080	CAP, ELECT 4.7-50V	..........K.........
C	321	87-016-492-080	C-CAP,S 0.33-16 FZ	..........K.........
C	322	87-016-492-080	C-CAP,S 0.33-16 FZ	..........K.........
C	335	87-010-401-080	CAP, ELECT 1-50V	..........K.........
C	336	87-010-401-080	CAP, ELECT 1-50V	..........K.........
C	354	87-010-175-080	CAP 560P	..........K.........
C	358	87-010-183-080	C-CAP,S 2700P-50 B	..........K.........
C	359	87-010-183-080	C-CAP,S 2700P-50 B	..........K.........
C	357	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
C	356	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	351	87-012-140-080	CAP 470P	..........K.........
C	352	87-012-140-080	CAP 470P	..........K.........
C	355	87-012-349-080	C-CAP,S 1000P-50 CH	..........K.........
C	360	87-010-183-080	C-CAP,S 2700P-50 B	..........K.........
C	363	87-A10-292-080	CAP,M 5600P-50 J	..........K.........
C	379	87-010-406-080	CAP, ELECT 22-50	..........K.........
C	373	87-016-083-080	C-CAP,S 0.15-16 RK	..........K.........
C	374	87-016-083-080	C-CAP,S 0.15-16 RK	..........K.........
C	380	87-010-406-080	CAP, ELECT 22-50	..........K.........
C	388	87-012-156-080	C-CAP,S 220P-50 CH	..........K.........
C	392	87-010-319-080	C-CAP,S 56P-50 CH	..........K.........
C	394	87-010-319-080	C-CAP,S 56P-50 CH	..........K.........
C	391	87-010-319-080	C-CAP,S 56P-50 CH	..........K.........
C	393	87-010-319-080	C-CAP,S 56P-50 CH	..........K.........
CN	301	87-099-827-010	CONN,3P S2M-3W	..........K.........
CN	351	87-099-832-010	CONN,8P S2M-8W	..........K.........
D	352	87-A40-269-080	C-DIODE,MC2836	..........K.........
IC	303	87-A20-783-040	C-IC,BA7762AFS	..........K.........
L	301	87-A50-049-010	COIL,TRAP 85K(COI)	..........K.........
L	302	87-A50-049-010	COIL,TRAP 85K(COI)	..........K.........
L	351	87-007-342-010	COIL,OSC 85K BIAS	..........K.........
Q	359	87-026-610-080	TR,KTC3198GR	..........K.........
Q	358	87-026-610-080	TR,KTC3198GR	..........K.........
Q	357	87-026-610-080	TR,KTC3198GR	..........K.........
Q	356	87-A30-076-080	C-TR,2SC3052F	....
Q	354	87-A30-087-080	C-FET,2SK2158	..........K.........
Q	351	87-A30-087-080	C-FET,2SK2158	..........K.........
Q	353	87-A30-087-080	C-FET,2SK2158	..........K.........
Q	355	87-A30-105-080	C-TR,RT1P 441C	..........K.........
SFR	351	87-A90-433-080	SFR,50K H NVZ6TLTA	..........K.........
SFR	352	87-A90-433-080	SFR,50K H NVZ6TLTA	..........K.........
C	457	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	458	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	452	87-010-401-080	CAP, ELECT 1-50V	..........K.........
C	451	87-010-401-080	CAP, ELECT 1-50V	..........K.........
C	459	87-A10-299-080	CAP,M 0.022-50 J	..........K.........
C	456	87-A10-305-080	CAP,M 0.068-50 J	..........K.........
C	455	87-A10-305-080	CAP,M 0.068-50 J	..........K.........
C	466	87-A10-299-080	CAP,M 0.022-50 J	..........K.........
C	465	87-A10-299-080	CAP,M 0.022-50 J	..........K.........
C	460	87-A10-299-080	CAP,M 0.022-50 J	..........K.........
IC	451	87-A21-031-040	C-IC,BU4551BF	..........K.........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	....
C	9	87-010-917-000	CAP,E 3300-50 M SMG	....
C	5	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	3	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	6	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	4	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	2	87-012-369-080	C-CAP,S 0.047-50F	..........K.........
C	1	87-012-369-080	C-CAP,S 0.047-50F	..........K.........
C	9	87-A10-520-000	CAP,E 3300-35 M SMG	..........K.........
C	10	87-010-917-000	CAP,E 3300-50 M SMG	....
C	10	87-A10-520-000	CAP,E 3300-35 M SMG	..........K.........
C	27	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
C	23	87-010-247-080	CAP, ELECT 100-50V	..........K.........
C	29	87-010-247-080	CAP, ELECT 100-50V	..........K.........
C	24	87-010-247-080	CAP, ELECT 100-50V	..........K.........
C	26	87-010-263-080	CAP, ELECT 100-10V	..........K.........
C	22	87-010-385-080	CAP, ELECT 220-25V	..........K.........
C	21	87-010-385-080	CAP, ELECT 220-25V	..........K.........
C	23	87-010-408-080	CAP, ELECT 47-50V	....
C	24	87-010-408-080	CAP, ELECT 47-50V	....
C	25	87-010-430-080	CAP, ELECT 100-63	..........K.........
C	30	87-010-112-080	CAP, ELECT 100-16V	..........K.........
C	31	87-010-235-080	CAP,E 470-16 SME	..........K.........
C	34	87-016-100-080	CAP,E 10-50 BP	..........K.........
C	33	87-016-100-080	CAP,E 10-50 BP	..........K.........
C	61	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	62	87-010-403-080	CAP, ELECT 3.3-50V	..........K.........
C	92	87-010-248-080	CAP, ELECT 220-10V	....
C	93	87-010-380-080	CAP, ELECT 47-16V	....
C	91	87-010-401-080	CAP, ELECT 1-50V	....
CN	91	87-A60-109-010	CONN,2P V S2M-2W	....

CNA	1	8Z-NF8-669-110	CONN ASSY,9P VH	..........K.........
CNA	1	8Z-NF8-670-110	CONN ASSY,7P 480 VH	....
D	9	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	8	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	3	87-070-274-080	DIODE,1N4003 SEM	..........K.........
D	5	87-070-274-080	DIODE,1N4003 SEM	..........K.........
D	4	87-070-274-080	DIODE,1N4003 SEM	..........K.........
D	6	87-070-274-080	DIODE,1N4003 SEM	..........K.........
D	7	87-A40-383-080	ZENER,MTZJ30A	..........K.........
D	1	87-A40-547-090	DIODE,D5SBA20	....
D	1	87-A40-548-090	DIODE,D3SBA20	..........K.........
D	10	87-A40-345-080	ZENER,MTZJ10C	..........K.........
D	64	87-070-274-080	DIODE,1N4003 SEM	..........K.........
D	62	87-A40-269-080	C-DIODE,MC2836	..........K.........
D	61	87-A40-270-080	C-DIODE,MC2838	..........K.........
D	99	87-070-322-080	ZENER,MTZJ 36D	..........K.........
JW	16	87-008-372-080	FILTER, EMI BL OIRNI	..........K.........
Q	2	87-026-609-080	TR,KTA1266GR	..........K.........
Q	1	87-026-609-080	TR,KTA1266GR	..........K.........
Q	5	87-026-610-080	TR,KTC3198GR	..........K.........
Q	8	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	6	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	9	87-A30-196-080	TR,2SC4115SRS	..........K.........
Q	4	89-213-702-010	TR,2SB1370 (1.8W)	..........K.........
Q	61	87-A30-074-080	C-TR,RT1P 141C	..........K.........
Q	64	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	66	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	65	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	63	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	67	87-A30-076-080	C-TR,2SC3052F	..........K.........
R	20	87-A00-261-080	RES,M/F 0.56-1W J	....
WH	1	87-A90-510-010	HLDR,WIRE 2.5-9P	..........K.........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	..........K.........
C	101	87-010-178-080	CHIP CAP 1000P	..........K.........
C	102	87-010-178-080	CHIP CAP 1000P	..........K.........
C	104	87-010-405-080	CAP, ELECT 10-50V	..........K.........
C	103	87-010-405-080	CAP, ELECT 10-50V	..........K.........
C	107	87-010-408-080	CAP, ELECT 47-50V	..........K.........
C	108	87-010-408-080	CAP, ELECT 47-50V	..........K.........
C	111	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	112	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	113	87-A10-946-080	C-CAP,S 220P-100 J CH	..........K.........
C	114	87-A10-946-080	C-CAP,S 220P-100 J CH	..........K.........
C	117	87-A11-185-080	C-CAP, 0.47-50 F Z	..........K.........
C	118	87-A11-185-080	C-CAP, 0.47-50 F Z	..........K.........
C	123	87-010-176-080	C-CAP,S 680P-50 SL	..........K.........
C	124	87-010-176-080	C-CAP,S 680P-50 SL	..........K.........
C	129	87-010-191-080	C-CAP,S 0.015-50 F	..........K.........
C	125	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	127	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	126	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	128	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	130	87-010-191-080	C-CAP,S 0.015-50 F	..........K.........
C	133	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
C	132	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
C	131	87-010-197-080	CAP, CHIP 0.01 DM	..........K.........
D	108	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	107	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	111	87-A40-270-080	C-DIODE,MC2838	..........K.........
J	203	87-A60-238-010	TERMINAL,SP 4P (MSC)	..........K.........
J	201	87-A60-929-010	JACK,DIA6.3 BLK ST W/S TAI	..........K.........
L	101	87-003-383-010	COIL,1UH-S	..........K.........
L	102	87-003-383-010	COIL,1UH-S	..........K.........
Q	104	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	105	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	106	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	103	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	108	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	109	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	107	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	101	87-A30-086-070	C-TR,CSD1306E	..........K.........
Q	102	87-A30-086-070	C-TR,CSD1306E	..........K.........
Q	110	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	116	87-A30-097-010	TR,FN 1016	..........K.........
Q	115	87-A30-097-010	TR,FN 1016	..........K.........
Q	117	87-A30-098-010	TR,FP 1016	..........K.........
Q	118	87-A30-098-010	TR,FP 1016	..........K.........
Q	112	87-A30-190-080	TR,CC5551	..........K.........
Q	111	87-A30-190-080	TR,CC5551	..........K.........
Q	119	87-A30-215-010	TR,2SD2025	....
Q	126	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	127	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	129	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	128	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	123	87-A30-106-070	C-TR,CMBT5551	..........K.........
Q	124	87-A30-106-070	C-TR,CMBT5551	..........K.........
Q	122	87-A30-214-010	TR,2SB1344	....
Q	121	87-A30-214-010	TR,2SB1344	....
Q	120	87-A30-215-010	TR,2SD2025	....
Q	131	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	130	87-A30-076-080	C-TR,2SC3052F	..........K.........
R	132	87-A00-257-080	RES,M/F 0.15-1W J	..........K.........

ELECTRICAL PARTS LIST-11/12

R	131	87-A00-257-080	RES,M/F 0.15-1W J	..........K.........
R	144	87-A00-439-050	RES,180-1/2W J RP	....
R	143	87-A00-439-050	RES,180-1/2W J RP	....
R	145	87-A00-439-050	RES,180-1/2W J RP	....
R	146	87-A00-439-050	RES,180-1/2W J RP	....
R	145	87-A00-440-050	RES,220-1/2W J RP	..........K.........
R	143	87-A00-440-050	RES,220-1/2W J RP	..........K.........
R	146	87-A00-440-050	RES,220-1/2W J RP	..........K.........
R	144	87-A00-440-050	RES,220-1/2W J RP	..........K.........
TH	101	87-A91-042-080	C-THMS,100K 55001	..........K.........
TH	102	87-A91-042-080	C-THMS,100K 55001	..........K.........
C	204	87-010-177-080	C-CAP,S 820P-50 SL	..........K.........
C	203	87-010-177-080	C-CAP,S 820P-50 SL	..........K.........
C	209	87-010-403-080	CAP, ELECT 3.3-50V	..........K.........
C	212	87-010-181-080	CAP,CHIP S 1800P	..........K.........
C	211	87-010-181-080	CAP,CHIP S 1800P	..........K.........
C	218	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	217	87-010-260-080	CAP, ELECT 47-25V	..........K.........
C	216	87-010-322-080	C-CAP,S 100P-50 CH	..........K.........
C	215	87-010-322-080	C-CAP,S 100P-50 CH	..........K.........
C	210	87-010-403-080	CAP, ELECT 3.3-50V	..........K.........
C	213	87-010-403-080	CAP, ELECT 3.3-50V	..........K.........
C	214	87-010-403-080	CAP, ELECT 3.3-50V	..........K.........
C	219	87-A10-946-080	C-CAP,S 220P-100 J CH	..........K.........
C	227	87-010-186-080	CAP,CHIP 4700P	..........K.........
C	228	87-010-186-080	CAP,CHIP 4700P	..........K.........
C	223	87-010-190-080	S CHIP F 0.01	..........K.........
C	224	87-010-190-080	S CHIP F 0.01	..........K.........
C	229	87-010-993-080	C-CAP,S 0.056-25 B	..........K.........
C	225	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	226	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
C	220	87-A10-946-080	C-CAP,S 220P-100 J CH	..........K.........
C	233	87-010-190-080	S CHIP F 0.01	..........K.........
C	234	87-010-190-080	S CHIP F 0.01	..........K.........
C	231	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	239	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	232	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	230	87-010-993-080	C-CAP,S 0.056-25 B	..........K.........
C	235	87-016-285-080	CAP,E 47-100SME	....
C	236	87-016-285-080	CAP,E 47-100SME	....
C	235	87-A10-121-080	CAP,E 47-100 REA	....
C	236	87-A10-121-080	CAP,E 47-100 REA	....
C	240	87-010-408-080	CAP, ELECT 47-50V	..........K.........
D	208	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	207	87-020-465-080	DIODE,1SS133 (110MA)	..........K.........
D	211	87-A40-270-080	C-DIODE,MC2838	..........K.........
J	204	87-A60-750-010	JACK,PIN 4P R/W BLUE	....
J	205	87-A60-751-010	JACK,PIN 2P R/W BLUE	..........K.........
L	201	87-003-383-010	COIL,1UH-S	..........K.........
L	202	87-003-383-010	COIL,1UH-S	..........K.........
Q	206	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	204	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	205	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	203	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	208	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	209	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	207	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	202	87-A30-086-070	C-TR,CSD1306E	..........K.........
Q	201	87-A30-086-070	C-TR,CSD1306E	..........K.........
Q	210	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	219	87-A30-106-070	C-TR,CMBT5551	..........K.........
Q	212	87-A30-190-080	TR,CC5551	..........K.........
Q	211	87-A30-190-080	TR,CC5551	..........K.........
Q	218	87-A30-255-010	TR,2SB1342	..........K.........
Q	217	87-A30-255-010	TR,2SB1342	..........K.........
Q	215	87-A30-256-010	TR,2SD1933	..........K.........
Q	216	87-A30-256-010	TR,2SD1933	..........K.........
Q	224	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	226	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	227	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	225	87-A30-076-080	C-TR,2SC3052F	..........K.........
Q	220	87-A30-106-070	C-TR,CMBT5551	..........K.........
R	231	87-A00-258-080	RES,M/F 0.22-1W J	..........K.........
R	233	87-A00-258-080	RES,M/F 0.22-1W J	..........K.........
R	232	87-A00-258-080	RES,M/F 0.22-1W J	..........K.........
R	234	87-A00-258-080	RES,M/F 0.22-1W J	..........K.........
R	266	87-A00-258-080	RES,M/F 0.22-1W J	..........K.........
R	265	87-A00-258-080	RES,M/F 0.22-1W J	..........K.........
C	602	87-010-180-080	C-CER 1500P	..........K.........
C	601	87-010-180-080	C-CER 1500P	..........K.........
C	606	87-010-318-080	C-CAP,S 47P-50 CH	..........K.........
C	605	87-010-318-080	C-CAP,S 47P-50 CH	..........K.........
C	619	87-010-185-080	C-CAP,S 3900P-50 B	..........K.........
C	613	87-016-081-080	C-CAP,S 0.1-16 RK	..........K.........
C	614	87-016-081-080	C-CAP,S 0.1-16 RK	..........K.........
C	618	87-A10-305-080	CAP,M 0.068-50 J	..........K.........
C	617	87-A10-305-080	CAP,M 0.068-50 J	..........K.........
C	616	87-A11-011-080	CAP,M 0.12-50 J DE	..........K.........
C	615	87-A11-011-080	CAP,M 0.12-50 J DE	..........K.........
C	620	87-010-185-080	C-CAP,S 3900P-50 B	..........K.........
C	627	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	622	87-010-401-080	CAP, ELECT 1-50V	..........K.........

C	621	87-010-401-080	CAP, ELECT 1-50V	..........K.........
C	626	87-010-405-080	CAP, ELECT 10-50V	..........K.........
C	629	87-010-405-080	CAP, ELECT 10-50V	..........K.........
C	625	87-010-405-080	CAP, ELECT 10-50V	..........K.........
C	623	87-A10-307-080	CAP,M 0.1-50 J	..........K.........
C	624	87-A10-307-080	CAP,M 0.1-50 J	..........K.........
C	637	87-010-183-080	C-CAP,S 2700P-50 B	..........K.........
C	636	87-010-194-080	CAP, CHIP 0.047	..........K.........
C	634	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	635	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	630	87-010-213-080	C-CAP,S 0.015-50 B	..........K.........
C	633	87-010-263-080	CAP, ELECT 100-10V	..........K.........
C	632	87-010-263-080	CAP, ELECT 100-10V	..........K.........
C	638	87-010-314-080	C-CAP,S 22P-50V	..........K.........
C	639	87-010-314-080	C-CAP,S 22P-50V	..........K.........
C	631	87-010-992-080	C-CAP,S 0.047-25 B	..........K.........
C	641	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	669	87-010-322-080	C-CAP,S 100P-50 CH	..........K.........
C	677	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	678	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	670	87-010-322-080	C-CAP,S 100P-50 CH	..........K.........
C	680	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
CN	604	87-099-570-010	CONN,13P TUC-P13P-B1	..........K.........
CN	602	87-A60-131-010	CONN,6P V FE	..........K.........
CN	605	87-A60-189-010	CONN,16P V TUC-P16P-B1	....
CN	601	88-NF9-657-010	CONN,30P H BLK TYK-B(X)	..........K.........
D	601	87-A40-002-080	ZENER,MTZJ5.1C	..........K.........
D	603	87-A40-234-080	ZENER,MTZJ5.6A	..........K.........
D	602	87-A40-438-080	ZENER,MTZJ4.7A	..........K.........
IC	601	87-A21-202-040	C-IC,M62445AFP	..........K.........
J	602	87-A60-881-010	JACK,PIN 2P MSP 242V05 PBSN	..........K.........
Q	601	87-026-609-080	TR,KTA1266GR	..........K.........
Q	604	87-A30-142-040	C-TR,DTA123EKA	..........K.........
C	735	87-010-178-080	CHIP CAP 1000P	..........K.........
C	732	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	733	87-010-196-080	CHIP CAPACITOR,0.1-25	..........K.........
C	731	87-010-560-080	CAP,E 10-50 GAS	..........K.........
C	734	87-012-157-080	C-CAP,S 330P-50 CH	..........K.........
JR	703	87-012-368-080	C-CAP,S 0.1-50 F	..........K.........
Q	732	87-A30-075-080	C-TR,2SA1235F	..........K.........
Q	731	87-A30-076-080	C-TR,2SC3052F	..........K.........

MECHANICAL PARTS LIST-1/2

NOTE: The characters in the suffix column indicate the part usage.

555EZST5C	XX	A
555UST5FD	XX	B
555UST5C	XX	C
555HRST5M	XX	D
555KST5E	XX	E
555GST5M	XX	F
555VJST5M	XX	G
555LHST5M	XX	H
556EZST5M	XX	I
555EZST5M	XX	J
555HAS5C2M	XX	K
559LHS5KM	XX	L

REF.NO	PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
	82-NE6-067-010		BADGE,AIWA 30N	ABCDEFGHIJKL........
	86-NFZ-001-010		WINDOW,TOP	ABCDEFGHIJKL........
	8Z-NB8-011-210		PANEL,LEFT V-2	ABCDEFGHIJKL........
	8Z-NF8-001-010		CABI,FR U	ABC..FG..J..........
	8Z-NF8-002-110		CABI,REAR USTNM	....
	8Z-NF8-003-010		BOX,CASS 1U	.BC.................
	8Z-NF8-004-010		BOX,CASS 2U	ABC..FG.IJ..........
	8Z-NF8-021-010		WINDOW,CASS 1	ABCD.FGHIJKL........
	8Z-NF8-022-010		WINDOW,CASS 2	ABCD.FGHIJKL........
	8Z-NF8-023-010		WINDOW,DISP U	.BC.................
	8Z-NF8-024-010		WINDOW,CD	ABCD.FGHIJKL........
	8Z-NF8-025-010		PANEL,TRAY U	ABCDEFGHIJKL........
	8Z-NF8-033-010		CABI,FR H	...D...H..KL........
	8Z-NF8-034-010		WINDOW,DISP H	...D...H..K.........
	8Z-NF8-035-010		WINDOW,DISP K	A....FG..J..........
	8Z-NF8-036-010		WINDOW,DISP E	........I...........
	8Z-NF8-037-010		BOX,CASS 1H	...D...H..KL........
	8Z-NF8-038-010		BOX,CASS 2H	...D...H..KL........
	8Z-NF8-040-010		CABI,FR E	........I...........
	8Z-NF8-041-110		CABI,REAR HRJSTNM	....
	8Z-NF8-042-110		CABI,REAR LHSTNM	....
	8Z-NF8-043-110		CABI,REAR KSTNE	....
	8Z-NF8-044-110		CABI,REAR EZSTNE	....
	8Z-NF8-046-110		CABI,REAR VJSTNM	....
	8Z-NF8-047-110		CABI,REAR USTFD	....
	8Z-NF8-054-110		CABI,REAR EZSTE R	....
	8Z-NF8-055-110		CABI,REAR LHSTFD	....
	8Z-NF8-056-110		CABI,REAR EZSTM	....
	8Z-NF8-057-110		CABI,REAR EZSTM R	....
	8Z-NF8-059-110		CABI,REAR LHSTM KIT	..........K.........
	8Z-NF8-060-010		WINDOW,DISP 559KIT	...........L........
	8Z-NF8-064-110		CABI,REAR HRSTM	....
	8Z-NF8-065-110		CABI,REAR HRJSC1M	....
	8Z-NF8-068-010		BOX,CASS 1 E	A....FG.IJ..........
	8Z-NF8-073-010		CABI,REAR HAST5M	....
	8Z-NF8-076-010		CABI,REAR HRJST5M	....
	8Z-NF8-078-010		CABI,REAR HRST5M	...D................
	8Z-NF8-081-010		CABI,REAR LHST5M	.......H............
	8Z-NF8-082-010		CABI,REAR LHS5KM	...........L........
	8Z-NF8-083-010		CABI,REAR LHST5FD	....
	8Z-NF8-084-010		CABI,REAR KST5E	....E...............
	8Z-NF8-085-010		CABI,REAR EZST5M	.........J..........
	8Z-NF8-086-010		CABI,REAR EZST5E R	....
	8Z-NF8-087-010		CABI,REAR EZST5M R	........I...........
	8Z-NF8-088-010		CABI,REAR EZST5E	....
	8Z-NF8-089-010		CABI,REAR UST5M	....
	8Z-NF8-090-010		CABI,REAR UST5FD	.B..................
	8Z-NF8-096-010		CABI,REAR VJST5M	......G.............
	8Z-NF8-097-010		CABI,REAR HSSTM	....
	8Z-NF8-099-010		CABI,REAR UST5C	..C.................
	8Z-NF8-100-010		CABI,REAR LHST5CC	....
	8Z-NF8-107-010		CABI,REAR EZST5C	....
	8Z-NF8-108-010		CABI,REAR GST5M	.....F..............
	8Z-NF8-109-010		CABI,REAR HRS5C1M W/O SPEC	....
	8Z-NF8-114-010		CABI,REAR EZ	A...................
	8Z-NF8-115-010		CABI,REAR EZST5FD555	....
	8Z-NF8-116-010		CABI,REAR EZST5FD556	....
	8Z-NF9-043-010		PANEL,RIGHT S V-2	ABCDEFGHIJKL........
	8Z-NF9-095-010		PANEL,TOP V-2 R	ABCDEFGHIJKL........
	8Z-NF8-005-210		KEY,POWER	ABCD.FGHIJKL........
	8Z-NF8-006-010		KEY,CD	ABCD.FGHIJKL........
	8Z-NF8-007-010		REFLECTOR,ECO	ABCD.FGHIJKL........
	8Z-NF8-008-010		KEY,TIMER	ABCD.FGHIJKL........
	8Z-NF8-009-010		KEY,EDIT	ABC..FG.IJ..........
	8Z-NF8-010-010		KEY,ASSY FUN	ABCD.FGHIJKL........
	8Z-NF8-013-010		KEY,ASSY PLAY	A..D.FGHIJKL........
	8Z-NF8-016-010		KEY,ASSY PAUSE	ABCD.FGHIJKL........
	8Z-NF8-020-110		KEY,RDS	........I...........
	8Z-NF8-026-010		KNOB,RTRY JOG	ABCD.FGHIJKL........
	8Z-NF8-027-010		KNOB,RTRY VOL	ABCD.FGHIJKL........
	8Z-NF8-028-110		KNOB,RTRY MIC	...D...H..KL........
	8Z-NF8-029-010		REFLECTOR,JOG	ABCD.FGHIJKL........
	8Z-NF8-030-010		KEY,ASSY PLAY U	.BC.................
	8Z-NF8-048-010		KEY,EDIT H	...D...H..KL........
	8Z-NF8-049-010		KEY,ECHO U	ABC..FG.IJ..........

MECHANICAL PARTS LIST-2/2

		8Z-NF8-050-010	KEY,KARAOKE	...D...H..KL........
		81-532-080-010	LABEL, CASS. COMPT	ABCD.FGHIJKL........
		87-NF6-616-010	CONN ASSY,8P RPB	...D...H..KL........
		84-ZG1-245-210	CAP,OPTICAL	ABCDEFGHIJKL........
		82-NF5-218-010	SPR-T,EJECT 1 (SIN)	ABCDEFGHIJKL........
		82-NF5-219-010	SPR-T,EJECT 2 (SIN)	ABCDEFGHIJKL........
		82-NF5-229-010	PLATE,LOCK	ABCD.FGHIJKL........
		85-NF7-599-010	PVC W 3.2-8-0.3	ABCDEFGHIJKL........
		86-NF9-224-010	SPR-C,LOCK	ABCD.FGHIJKL........
		87-064-185-010	HLDR,WIRE	ABCDEFGHIJKL........
		87-NF4-216-010	HLDR,LOCK 1	ABCD.FGHIJKL........
		87-NF4-217-110	HLDR,LOCK 2	ABCD.FGHIJKL........
		87-NF4-221-010	HLDR,CABLE	....
		87-NF8-220-010	DMPR,150	ABCD.FGHIJKL........
		88-NF5-208-010	HLDR,PWB-M N	ABCDEFGHIJKL........
		8Z-NB8-240-010	COVER, PL	ABCDEFGHIJKL........
		8Z-NF8-205-310	HLDR,HT-SINK	ABCDEFGHIJKL........
		8Z-NF9-204-010	PLATE,MIC	...D...H..KL........
		87-067-581-010	TAPPING SCREW, BVT2+3-15	ABCDEFGHIJKL........
		87-067-641-010	UTT2+3-8(W/O SLOT)BL	ABCDEFGHIJKL........
		87-067-688-010	BVTT+3-6	ABCDEFGHIJKL........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	ABCDEFGHIJKL........
		87-067-758-010	BVT2+3-12 W/O SLOT	ABCDEFGHIJKL........
		87-078-191-010	S-SCREW,IT+4-10	ABCDEFGHIJKL........
		87-721-096-410	QT2+3-10 GLD	ABCDEFGHIJKL........
		87-721-097-410	QT2+3-12 GLD	ABCDEFGHIJKL........
		87-723-096-410	QT2+3-10W/O SLOT BL	ABCDEFGHIJKL........
		87-B10-090-010	BVIT3B+3-12 GOLD	ABC...GHIJKL........
		87-B10-184-010	BVTT+3-20 W/O SLOT	....
		87-NF4-224-010	S-SCREW,IT3B+3-8 CU	ABCDEFGHIJKL........
		87-050-034-010	AC CORD ASSY,E	....
		87-050-079-010	AC-CORD ASSY,E	....
		87-085-185-010	BUSHING, AC CORD (E)	..........K.........
		87-085-189-010	BUSHING, CORD (U)	....
		87-099-811-010	PLUG,ADPTR CONV(K)	....
		87-A80-006-010	AC CORD ASSY HS	....
		87-A80-105-010	AC CORD ASSY,AZ	..........K.........
		87-A80-110-010	AC CORD ASSY,U SPT-2W	....
		87-A90-796-010	FAN,F614R-12MC-15-300MM	....
		88-906-251-110	FF-CABLE,6P 1.25	..........K.........
		88-911-101-110	FF-CABLE,11P 1.25	....
		88-913-301-110	FF-CABLE,13P-1.25	..........K.........
		88-915-101-110	FF-CABLE, 15P 1.25 100MM	..........K.........
		8Z-NF8-604-010	PT,ZNF-8U	....
		8Z-NF8-605-010	PT,ZNF-8HR	....
		8Z-NF8-606-010	PT,ZNF-8EZ	....
		8Z-NF8-609-010	PT,ZNF-8LH	..........K.........
C	705	87-012-349-080	C-CAP,S 1000P-50 CH	..........K.........
W	1	87-A80-143-010	AC CORD ASSY,E BLK	....
		87-050-079-010	AC-CORD ASSY,E	A..D..GHIJ.L........
		87-050-081-110	AC CORD ASSY,G	.....F..............
		87-085-185-010	BUSHING, AC CORD (E)	A..DEFGHIJ.L........
		87-085-189-010	BUSHING, CORD (U)	.BC.................
		87-099-811-010	PLUG,ADPTR CONV(K)	....E...............
		87-A80-105-010	AC CORD ASSY,AZ	....
		87-A80-110-010	AC CORD ASSY,U SPT-2W	.BC.................
		88-906-251-110	FF-CABLE,6P 1.25	ABCDEFGHIJ.L........
		88-911-101-110	FF-CABLE,11P 1.25	ABC..FG.IJ..........
		88-913-301-110	FF-CABLE,13P-1.25	ABCD.FGHIJ.L........
		88-915-101-110	FF-CABLE, 15P 1.25 100MM	...D...H...L........
C	365	87-010-190-080	S CHIP F 0.01	A...EFG.IJ..........
PT	1	8Z-NF8-721-010	PT,ZNF-8L (U)	.BC.................
PT	1	8Z-NF8-723-010	PT,ZNF-8L (LH)	...D...H...L........
PT	1	8Z-NF8-724-010	PT,ZNF-8L (EZ)	A...EFG.IJ..........
W	1	87-A80-143-010	AC CORD ASSY,E BLK	....E...............
		88-NF8-205-010	GUIDE,FL	..........K.........
		88-NF8-205-010	GUIDE,FL	ABCD.FGHIJ..........
		8Z-NF8-201-110	GUIDE,OPE	ABCD.FGHIJ..........
		8Z-NF8-202-010	GUIDE,FUN	ABCD.FGHIJ..........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	....
WH	1	87-A90-510-010	HLDR,WIRE 2.5-9P	..........K.........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	.BCDEF.H............
WH	1	87-A90-510-010	HLDR,WIRE 2.5-9P	ABCDEFGHIJ..........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	..........K.........
		87-067-703-010	TAPPING SCREW, BVT2+3-10	ABCDEFGHIJ..........

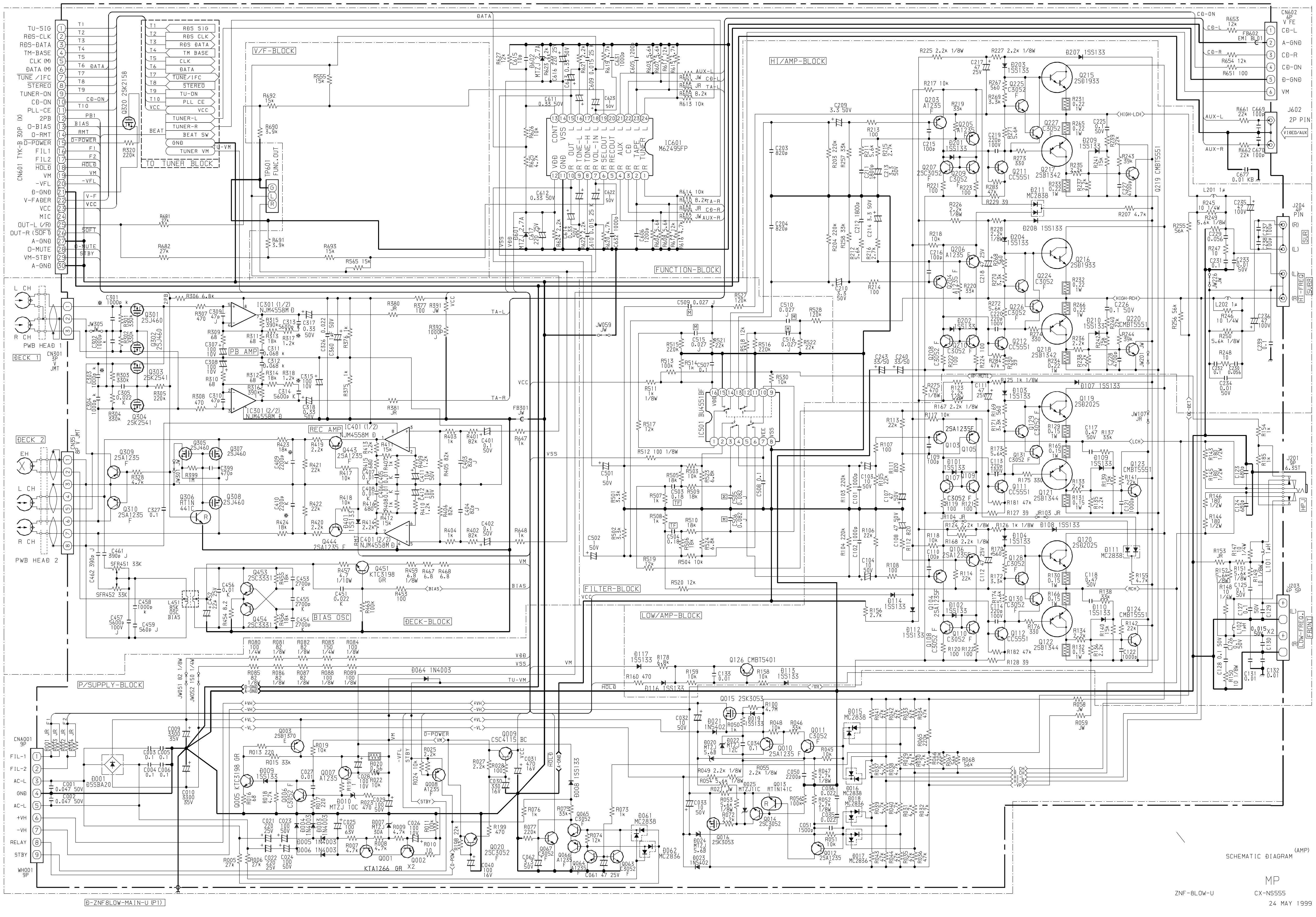
ACCESSORIES / PACKAGE LIST-1/1

NOTE: The characters in the suffix column indicate the part usage.

555EZST5C	XX	A...................
555UST5FD	XX	.B..................
555UST5C	XX	..C.................
555HRST5M	XX	...D................
555KST5E	XX	....E...............
555GST5M	XX	.....F..............
555VJST5M	XX	......G.............
555LHST5M	XX	.......H............
556EZST5M	XX	........I...........
555EZST5M	XX	.........J..........
555HAS5C2M	XX	..........K.........
559LHS5KM	XX	...........L........

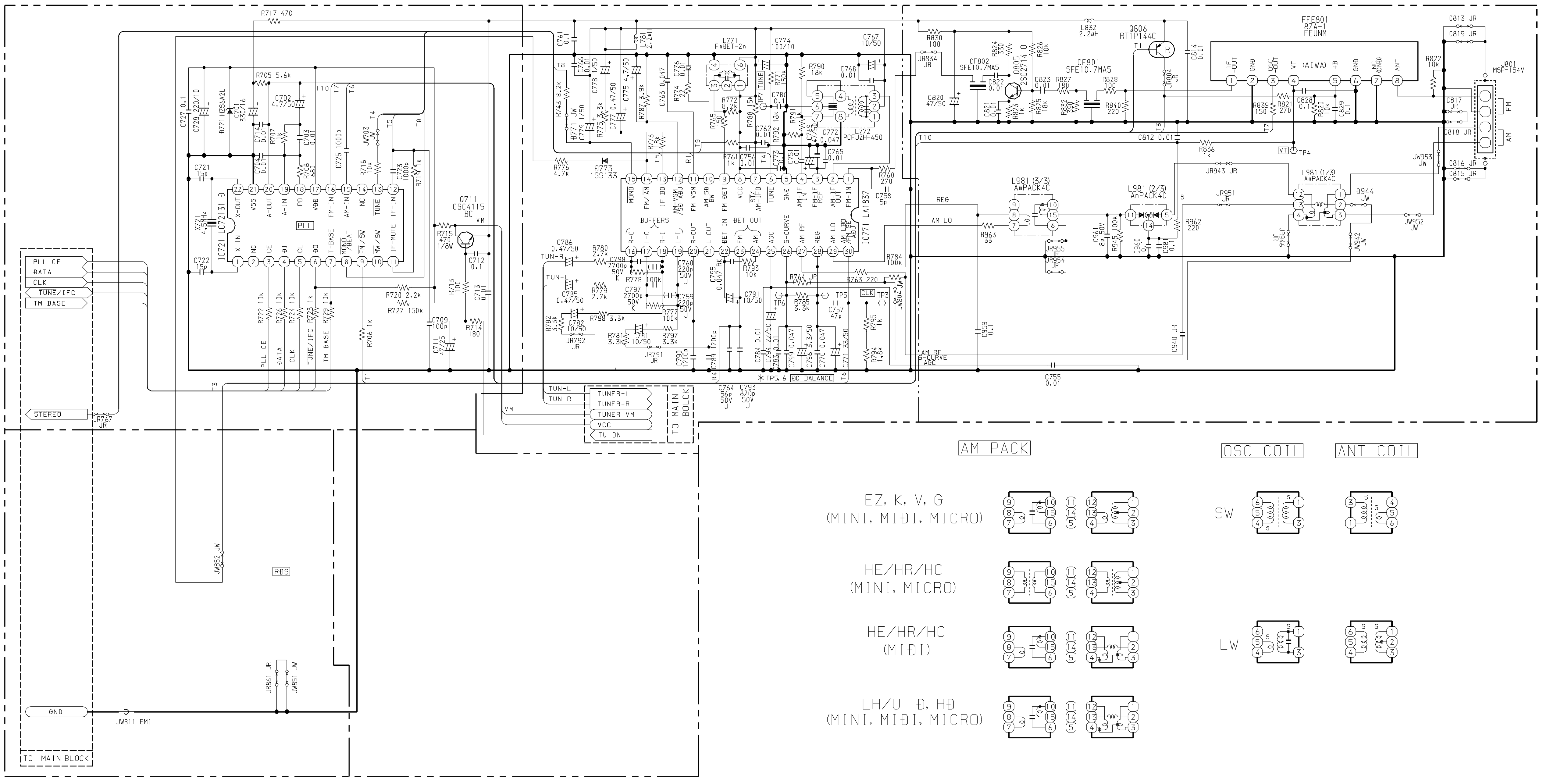
REF.NO	PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
	8Z-NF8-564-010		CTN,PRINTED 555EZST5FD	....
	8Z-NF8-565-010		CTN,PRINTED 556EZST5FD	....
	8Z-NF8-901-110		IB,H(ECA)M	....
	8Z-NF8-902-010		IB,LH(ESP)M	....
	8Z-NF8-903-110		IB,U(ESF)M	....
	8Z-NF8-905-010		IB,K(E)E	....
	8Z-NF8-906-010		IB,EZ(9L)E NO RDS-S555	....
	8Z-NF8-907-010		IB,V(ER)M	....
	8Z-NF8-909-110		IB,EZ(9L)E RDS-S556	....
	8Z-NF8-911-010		IB,H(ECA)DIS	....
	8Z-NF8-915-010		IB,G(E)M-VA	.....F..............
	8Z-NF8-916-010		IB,EZ(9L)M NO RDS-S555	....
	8Z-NF8-919-110		IB,EZ(9L)M RDS-S556	....
	8Z-NF8-927-010		IB,U(ESF)M-VA	.B..................
	8Z-NF8-928-010		IB,LH(ESP)M - VA	.......H............
	8Z-NF8-931-010		IB,K(E)E-VA	....E...............
	8Z-NF8-932-010		IB,EZ(9L)E - VA(S555)	....
	8Z-NF8-933-010		IB,EZ(9L)E - VA(S556)	....
	8Z-NF8-937-010		IB,H(ECA)DIS -VA	....
	8Z-NF8-938-010		IB,H(ECA)M -VA	...D................
	8Z-NF8-940-010		IB,V(ER)M-VA	......G.............
	8Z-NF8-941-010		IB,EZ(9L)	A...................
	8Z-NF8-942-010		IB,EZ(9L)M-VA (S555)	.........J..........
	8Z-NF8-943-010		IB,EZ(9L)M-VA (S556)	........I...........
	8Z-NF8-944-010		IB,U(ESF)S-VA	....
	8Z-NF8-946-010		IB,LH(ESP)S - VA	....
	8Z-NF8-947-010		IB,U(ESF)B-VA	..C.................
	8Z-NF8-948-010		IB,LH(ESP)B- VA	....
	8Z-NF8-949-010		IB,EZ(9L)B- VA(S556)	....
	8Z-NF8-912-010		IB,LH(P)KIT	....
	8Z-NF8-913-010		IB,H(T)M-THAI KIT-VA	....
	8Z-NF8-914-010		IB,HA(KIT)M -VA	....
	8Z-NF8-920-010		IB,H(T)M-KIT	....
	8Z-NF8-923-010		IB,HA(KIT)M	..........K.........
	8Z-NF8-945-010		IB,LH(P)KIT- VA	...........L........
	87-006-268-010		AM-LOOP ANT NC (UN)	.B..................
	87-043-106-010		WIRE, FM ANT (Z)	....
	87-043-115-010		ANT,FEEDER FM	.BCD..GH..KL........
	87-A90-030-010		ANT,LOOP AM-NC C	A.C.EFGHIJKL........
	87-A90-054-010		ANT,LOOP AM-CON C	...D................
	87-A90-118-010		ANT,WIRE FM (Z)	A...EF..IJ..........
	87-A90-119-010		ANT,WIRE SW(5M)	...D................
	87-A91-017-010		PLUG,CONVERSION JT-0476	...D...H............
	8Z-NF8-701-210		RC UNIT,RC-ZAS01	AB.D..GHIJKL........
	8Z-NF8-702-010		RC UNIT,RC-ZAS01	..C.EF..............

SCHEMATIC DIAGRAM – 1 (MAIN)<U> 1/2



V/F-BLOCK
TD TUNER BLOCK
FUNCTION-BLOCK
HI/AMP-BLOCK
PB AMP
REC AMP
BIAS OSC
DECK-BLOCK
FILTER-BLOCK
LOW/AMP-BLOCK
P/SUPPLY-BLOCK
IC601 M62495FP
IC301 NJM4558M D
IC401 NJM4558M D
IC501 BU4551BF
CN601 TYK-B 30P (X)
CN602 6P V FE
J602 2P PIN
J204 4P PIN
J201 9P 6.3ST
J203 4P SP
CNA001 9P
WH001 9P
PWB HEAD 1
PWB HEAD 2
DECK 1
DECK 2
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE / IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
2PB
D-BIAS
D-RMT
D-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SOFT)
A-GND
D-MUTE
VM-STBY
A-GND
CD-L
A-GND
CD-R
CD-ON
D-GND
VM
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
SCHEMATIC DIAGRAM (AMP)
MP
ZNF-BLOW-U
CX-NS555
24 MAY 1999
D-ZNF8LOW-MAIN-U (P1)

SCHEMATIC DIAGRAM – 2 (MAIN)<U> 2/2


IC721 LC72131 D
PLL
Q711 C5C4115 BC
D773 1SS133
IC771 LA1837
BUFFERS
DET OUT
L771 F#DET-2n
L772 PCFJZH-450
CF802 SFE10.7MA5
CF801 SFE10.7MA5
Q805 2SC2714 O
Q806 RT1P144C
L832 2.2μH
FFE801 87A-1 FEUNM
J801 MSP-154V
FM
AM
L981 (3/3) AmPACK4C
L981 (2/3) AmPACK4C
L981 (1/3) AmPACK4C
D944
REG
AM LO
PLL CE
DATA
CLK
TUNE/IFC
TM BASE
STEREO
GND
TO MAIN BLOCK
TUN-L
TUN-R
TUNER-L
TUNER-R
TUNER VM
VCC
TU-ON
TO MAIN BOLCK
DC BALANCE
TP4
TP5
TP6
CLK
JW811 EM1
JR861 JR
JW851 JW
JW852 JW
R05
AM PACK
OSC COIL
ANT COIL
EZ, K, V, G
(MINI, MIDI, MICRO)
HE/HR/HC
(MINI, MICRO)
HE/HR/HC
(MIDI)
LH/U D, HD
(MINI, MIDI, MICRO)
SW
LW

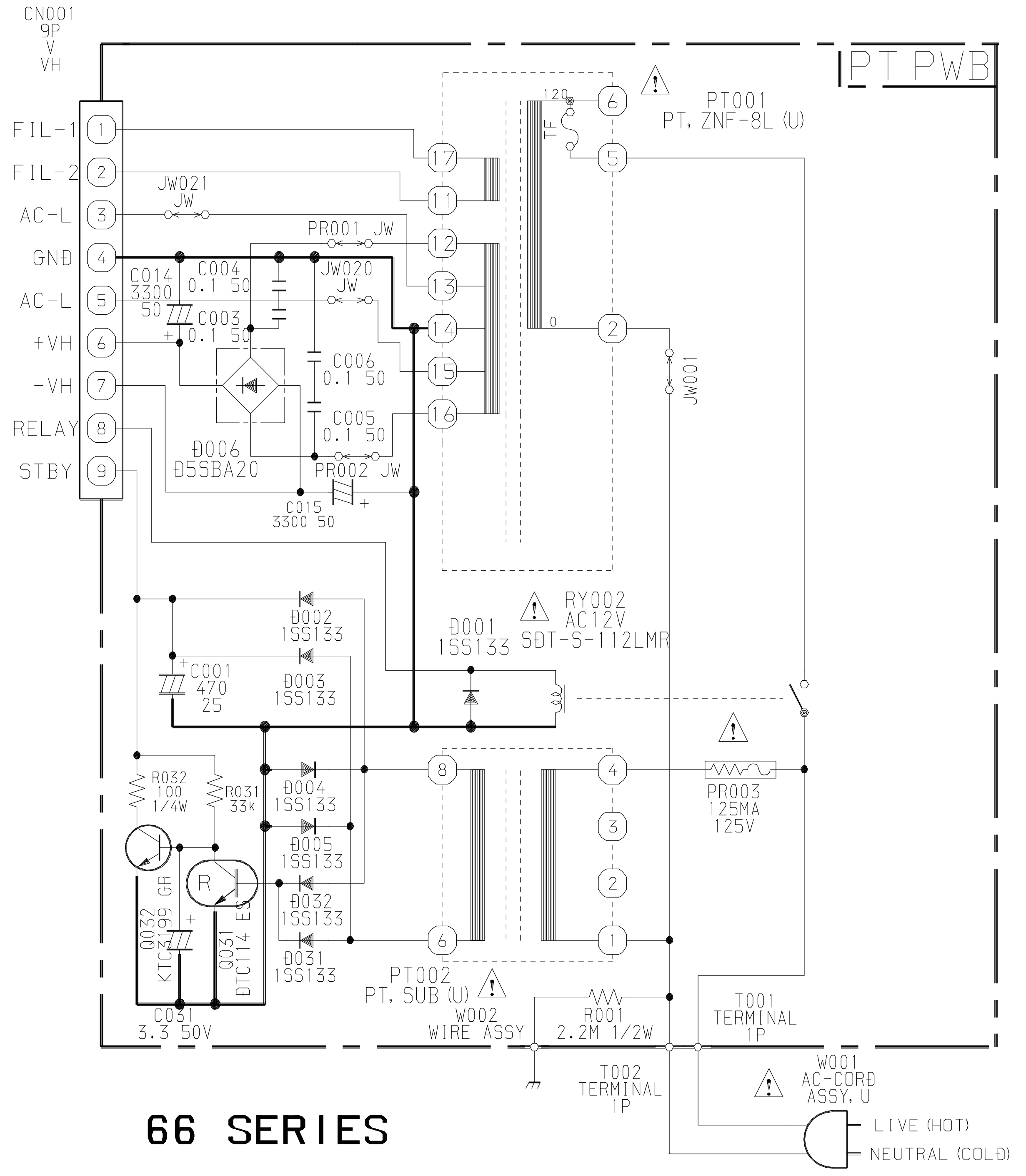
(TUNER)
SCHEMATIC DIAGRAM

MP

ZNF-8L0W-U
CX-NS555
24 MAY 1999

T-ZNF8L0W-MAIN-U (P2)

SCHEMATIC DIAGRAM – 3 (PT)<U>


CN001
9P
V
VH
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
PT PWB
PT001
PT, ZNF-8L (U)
120
TF
0
JW021
JW
PR001 JW
JW020
JW
C014
3300
50
C004
0.1 50
C003
0.1 50
C006
0.1 50
C005
0.1 50
D006
D5SBA20
PR002 JW
C015
3300 50
JW001
D002
1SS133
D003
1SS133
C001
470
25
D001
1SS133
RY002
AC12V
SDT-S-112LMR
R032
100
1/4W
R031
33k
Q032
KTC3199 GR
Q031
DTC114 ES
D004
1SS133
D005
1SS133
D032
1SS133
D031
1SS133
C031
3.3 50V
PT002
PT, SUB (U)
PR003
125MA
125V
W002
WIRE ASSY
R001
2.2M 1/2W
T001
TERMINAL
1P
T002
TERMINAL
1P
W001
AC-CORD
ASSY, U
LIVE (HOT)
NEUTRAL (COLD)
66 SERIES

SCHEMATIC DIAGRAM (PT)

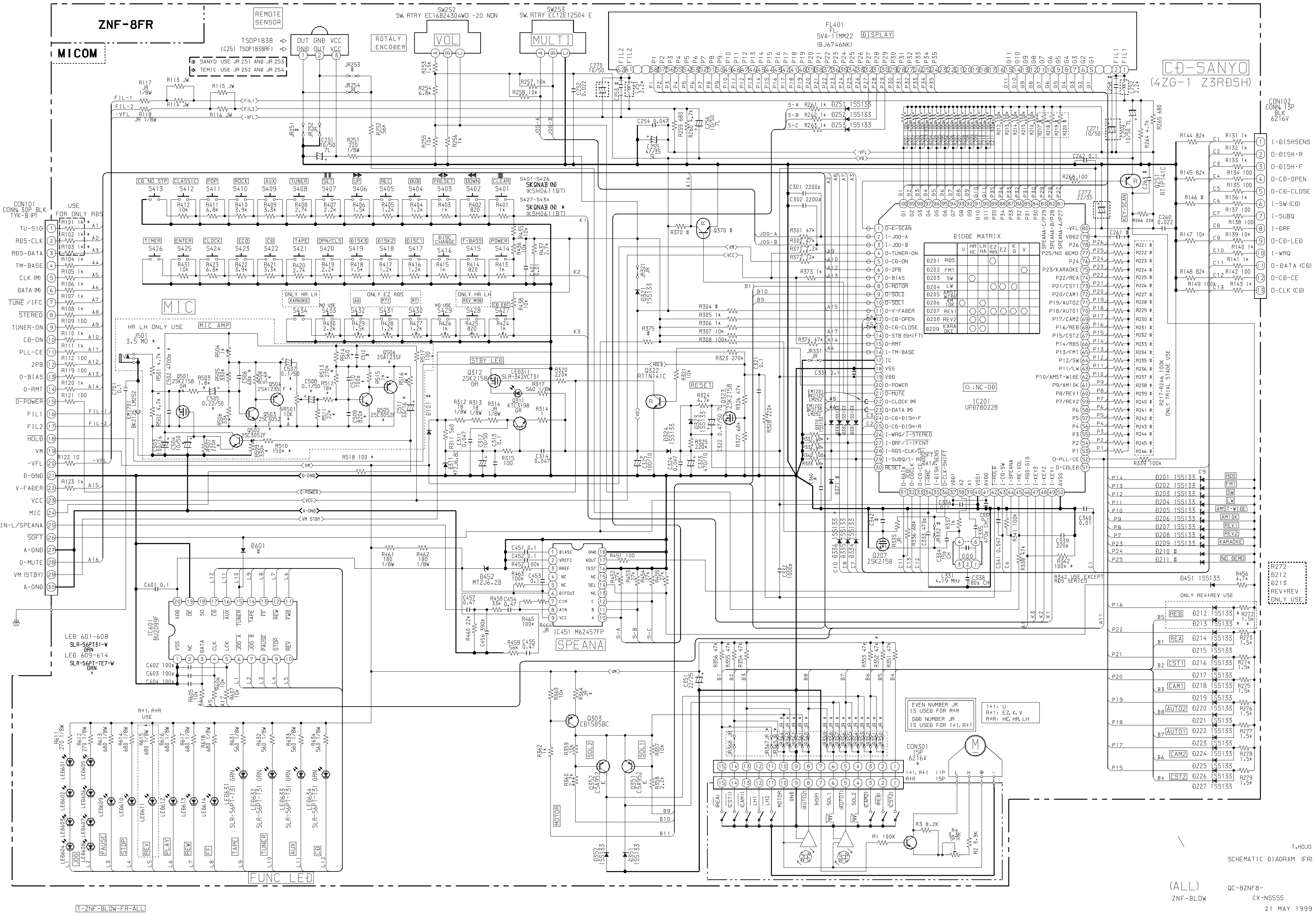
QC-8ZNF8-

ZNF-8LOW-U CX-NA555

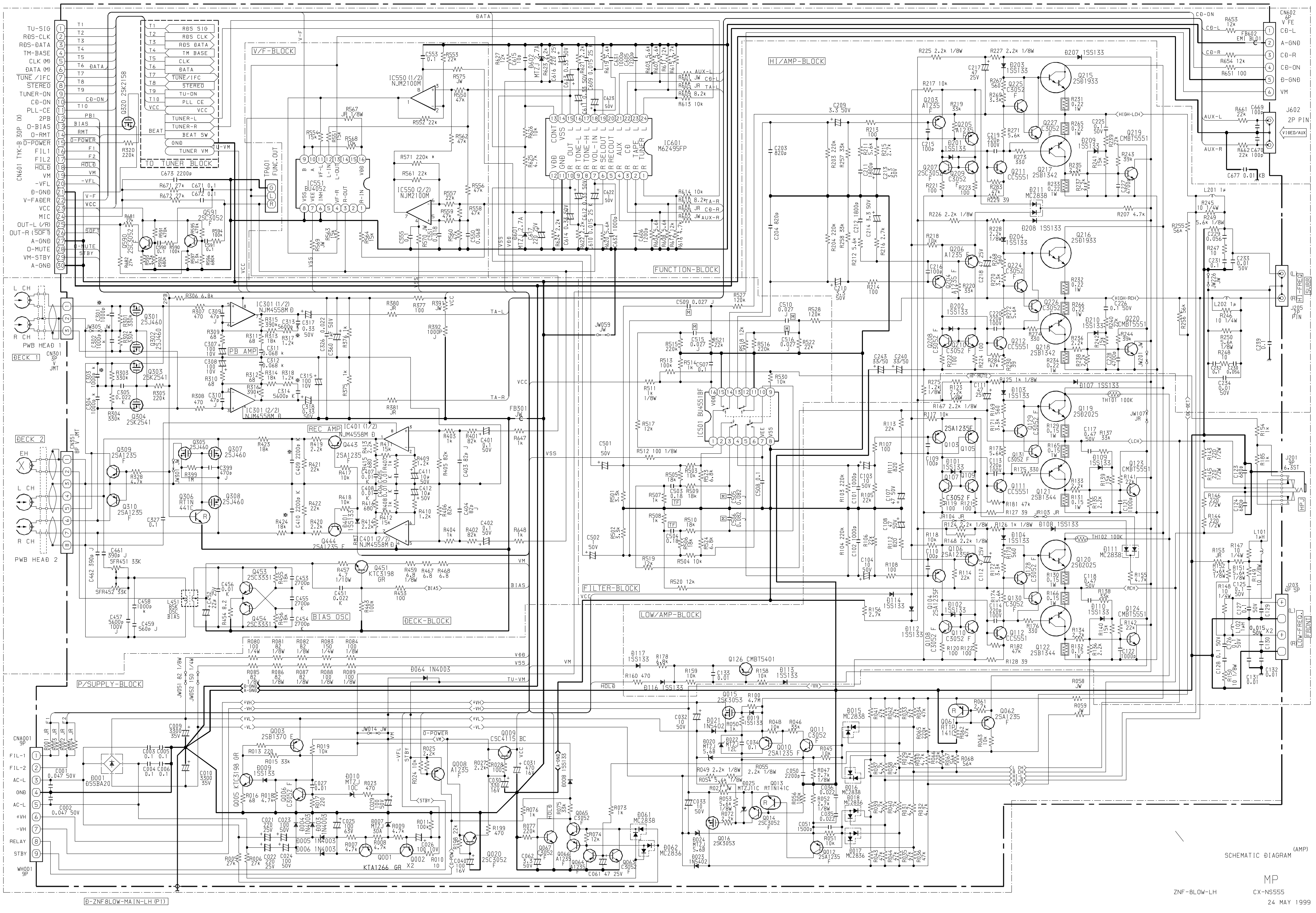
24 MAY 1999

B-ZNF8LOW-AC66-U

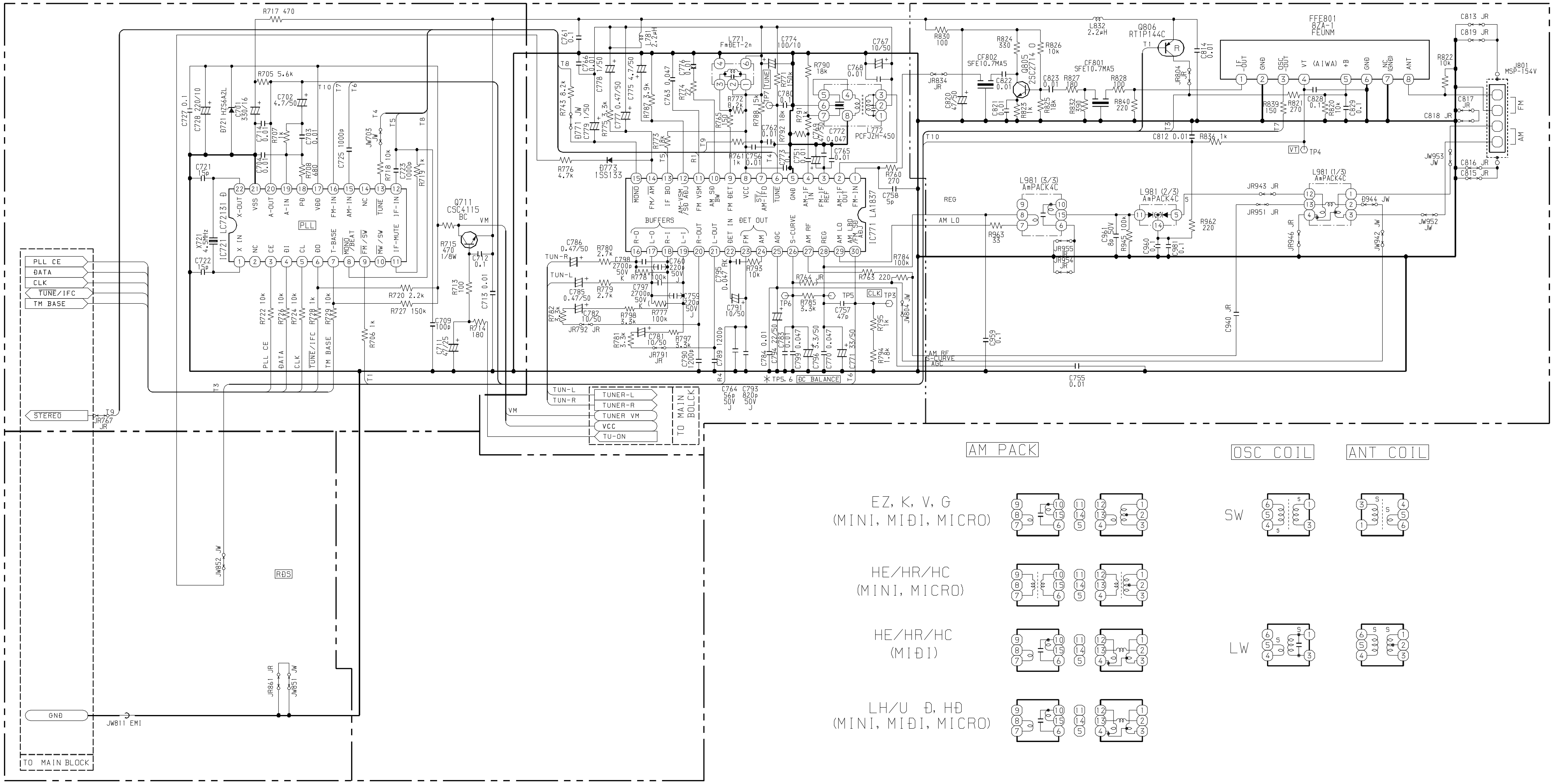
SCHEMATIC DIAGRAM – 4 (FRONT)


ZNF-8FR
MICOM
REMOTE SENSOR
TSOP1838
IC251 TSOP1838RF1
※ SANYO USE JR 251 AND JR 253
※ TEMIC USE JR 252 AND JR 254
OUT GND VCC
ROTALY ENCODER
SW252
SW, RTRY EC16B24304WD -20 NON
VOL
SW253
SW, RTRY EC12E12504 E
MULTI
FL401
FL
5VA-11MM22
(BJ6746NK)
DISPLAY
CD-SANYO
(4ZG-1 Z3RDSH)
CON102
CONN 13P
BLK
6216V
I-DISHSENS
O-DISH-R
O-DISH-F
O-CD-OPEN
O-CD-CLOSE
I-SW (CD)
I-SUBQ
I-DRF
O-CD-LED
I-WRQ
O-DATA (CD)
O-CD-CE
O-CLK (CD)
CON101
CONN 30P BLK
TYK-B (P)
USE FOR ONLY RDS
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE / IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
2PB
O-BIAS
O-RMT
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
IN-L/SPEANA
SOFT
A-GND
O-MUTE
VM (STBY)
A-GND
CD NO STP
CLASSIC
POP
ROCK
AUX
TUNER
SET
UP
REC
DUB
PRESET
DOWN
CLEAR
S401-S426
SKQNAB (N)
(KSH0611BT)
S427-S434
SKQNAB (N) *
(KSH0611BT)
TIMER
ENTER
CLOCK
ECO
CD
TAPE
OPN/CLS
DISK3
DISK2
DISC1
DISC CHANGE
T-BASS
POWER
MIC
ONLY HR LH
KARAOKE
ONLY EZ RDS
NO USE
ONLY HR LH
REV MOD
CD EDT
HR LH ONLY USE
MIC AMP
J501
3.5 MO *
STBY LED
Q312
2SK2158
GR
LED311
SLR-342VCT31
Q311
KTC3198
GR
Q322
RT1N141C
RESET
Q323
2SK2158
Q370 #
DIODE MATRIX
O:NC-OB
IC201
UPD780228
ONLY TRIAL STAGE USE
R217-R246 100K
Q251
RT1P141C
EC-SCAN
L331
4.19 MHz
Q207
2SK2158
R342 USE EXCEPT RDS SERIES
D451 1SS133
R272
D212
D213
REV+REV
ONLY USE
ONLY REV+REV USE
REB
REA
CST1
CAM1
AUTO2
AUTO1
CAM2
CST2
RDS
FM1
SW
LW
AMST-WIDE
AM10K
REV1
REV2
KARAOKE
NO DEMO
IC601
BU2099F
IC451 M62457FP
SPEANA
D452
MTZJ6.2B
D601
LED 601-608
SLR-56PT31-W
GRN
LED 609-614
SLR-56PT-TE7-W
GRN
R+1, R+R USE
FUNC LED
JOG
PAUSE
STOP
REV
PLAY
REW
FF
TAPE
TUNER
AUX
CD
SLR-56PT1T51 GRN
Q303
CD1585BC
SOL2
SOL1
Q352
C3A952
Q351
C3A952
MOTOR
EVEN NUMBER JR IS USED FOR R+R
ODD NUMBER JR IS USED FOR 1+1, R+1
1+1: U
R+1: EZ, K, V
R+R: HE, HR, LH
CON301
15P
6216V
1+1, R+1
R+R
11P
15P
R1 100K
R3 8.2K
R2 3.9K
T.HOJO
SCHEMATIC DIAGRAM (FR)
(ALL)
ZNF-8LOW
QC-8ZNF8-
CX-NS555
21 MAY 1999
T-ZNF-8LOW-FR-ALL

SCHEMATIC DIAGRAM – 5 (MAIN)<555/559LH> 1/2


CN601 TYK-B 30P (X)
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE /IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
2PB
O-BIAS
O-RMT
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SOFT)
A-GND
O-MUTE
VM-STBY
A-GND
TO TUNER BLOCK
V/F-BLOCK
FUNCTION-BLOCK
HI/AMP-BLOCK
FILTER-BLOCK
LOW/AMP-BLOCK
DECK-BLOCK
P/SUPPLY-BLOCK
PB AMP
REC AMP
BIAS OSC
IC550 (1/2) NJM2100M
IC550 (2/2) NJM2100M
IC551 BU4052
IC601 M62495FP
IC301 (1/2) NJM4558M D
IC301 (2/2) NJM4558M D
IC401 (1/2) NJM4558M D
IC401 (2/2) NJM4558M D
IC501 BU4551BF
TP601 FUNC.OUT
Q320 2SK2158
Q591 2SC3052
Q590 2SC3052
Q301 2SJ460
Q302 2SJ460
Q303 2SK2541
Q304 2SK2541
Q305 2SJ460
Q307 2SJ460
Q308 2SJ460
Q306 RT1N 441C
Q309 2SA1235
Q310 2SA1235
Q443 2SA1235
Q444 2SA1235 F
Q451 KTC3198 GR
Q453 2SC3331
Q454 2SC3331
Q215 2SD1933
Q216 2SD1933
Q217 2SB1342
Q218 2SB1342
Q219 CMBT5551
Q220 CMBT5551
Q119 2SB2025
Q120 2SD2025
Q121 2SB1344
Q122 2SB1344
Q123 CMBT5551
Q124 CMBT5551
Q126 CMBT5401
Q001 KTA1266 GR
Q002 X2
Q003 2SB1370 E
Q005 KTC3198 GR
Q006 2SC3052
Q008 A1235
Q009 CSC4115 BC
Q010 2SA1235 F
Q011 2SC3052
Q012 2SA1235 F
Q013 RT1N141C
Q014 2SC3052
Q015 2SK3053
Q016 2SK3053
Q020 2SC3052
Q061 RT1P 141C
Q062 2SA1235
D001 DSSBA20
D064 1N4003
D061 MC2838
D062 MC2836
CN602 6P V FE
CD-L
A-GND
CD-R
CD-ON
D-GND
VM
J602 2P PIN
AUX-L
AUX-R
VIDEO/AUX
J205 2P PIN
HI-FREQ SURR
J201 9P 6.3ST
HPJ
J203 4P SP
LOW-FREQ FRONT
DECK 1
DECK 2
PWB HEAD 1
PWB HEAD 2
CN301 3P V JMT
CN351 8P V JMT
CNA001 9P
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
WH001 9P
D-ZNF8LOW-MAIN-LH (P1)
SCHEMATIC DIAGRAM (AMP)
MP
ZNF-8LOW-LH
CX-NS555
24 MAY 1999

SCHEMATIC DIAGRAM – 6 (MAIN)<555/559LH> 1/2


PLL CE
DATA
CLK
TUNE/IFC
TM BASE
STEREO
GND
JW811 EMI
TO MAIN BLOCK
RDS
IC721 LC72131 D
PLL
X721 4.5MHz
Q711 CSC4115
IC771 LA1837
BUFFERS
DET OUT
TUNER-L
TUNER-R
TUNER VM
VCC
TU-ON
TO MAIN BOLCK
DC BALANCE
FFE801 8ZA-1 FEUNM
(AIWA)
Q806 RT1P144C
Q805 2SC2714 O
CF802 SFE10.7MA5
CF801 SFE10.7MA5
L772 PCFJZH-450
L771 FMDET-2n
L981 (3/3) AMPACK4C
L981 (2/3) AMPACK4C
L981 (1/3) AMPACK4C
J801 MSP-154V
FM
AM
AM PACK
OSC COIL
ANT COIL
EZ, K, V, G
(MINI, MIDI, MICRO)
HE/HR/HC
(MINI, MICRO)
HE/HR/HC
(MIDI)
LH/U D, HD
(MINI, MIDI, MICRO)
SW
LW

(TUNER)
SCHEMATIC DIAGRAM

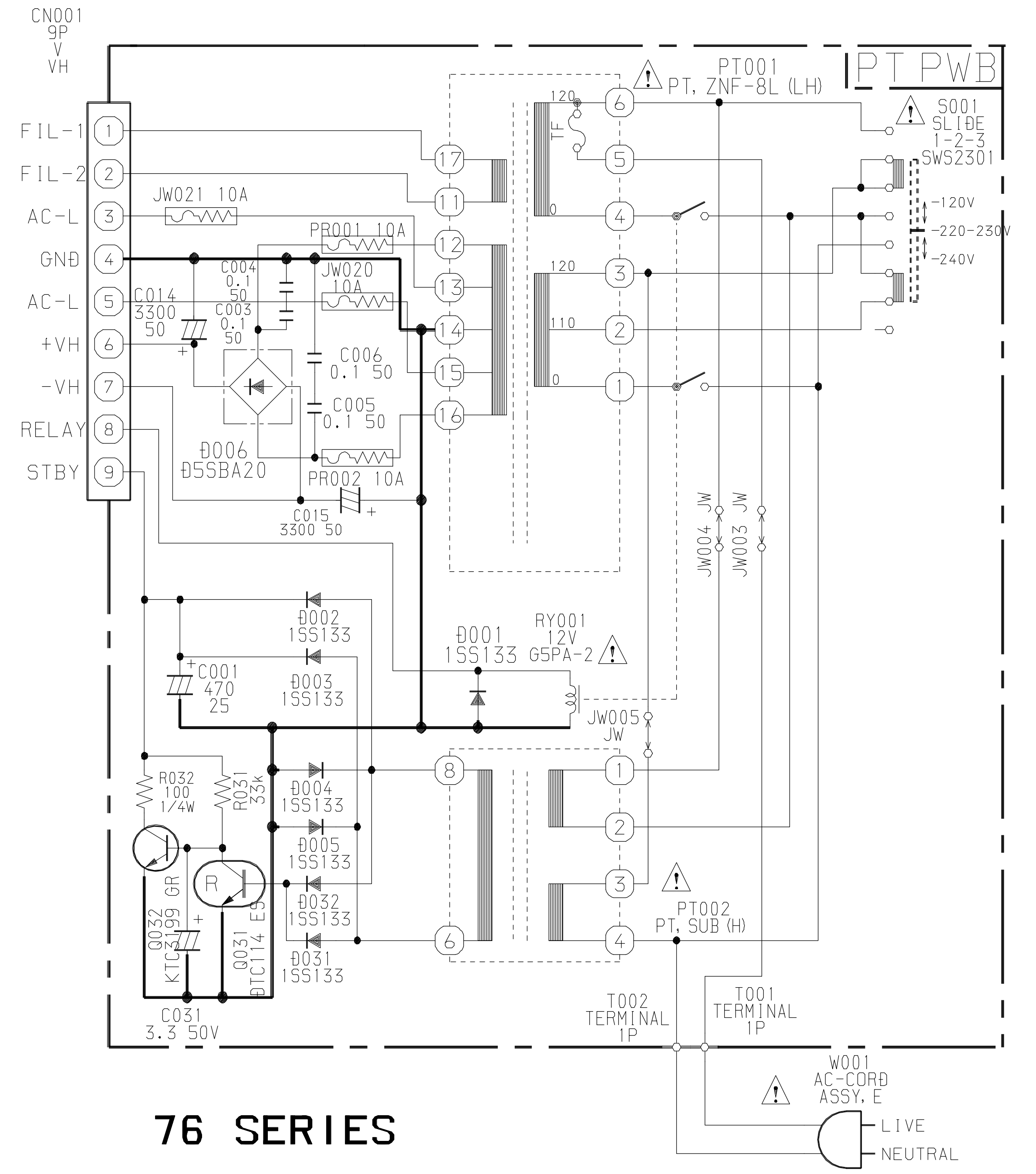
MP

ZNF-8LOW-LH

24 MAY 1999

Ð-ZNF8LOW-MAIN-LH (P2)

SCHEMATIC DIAGRAM – 7 (PT)<555LH/HR/HA/559LH>


CN001
9P
V
VH
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
JW021 10A
PR001 10A
C004 0.1 50
C003 0.1 50
JW020 10A
C014 3300 50
C006 0.1 50
C005 0.1 50
D006 D5SBA20
PR002 10A
C015 3300 50
PT PWB
PT001
PT, ZNF-8L (LH)
S001
SLIDE
1-2-3
SWS2301
-120V
-220-230V
-240V
TF
120
110
0
JW004 JW
JW003 JW
D002 1SS133
D003 1SS133
C001 470 25
D001 1SS133
RY001 12V G5PA-2
JW005 JW
R032 100 1/4W
R031 33k
D004 1SS133
D005 1SS133
D032 1SS133
D031 1SS133
Q032 KTC3199 GR
Q031 DTC114 ES
R
C031 3.3 50V
PT002
PT, SUB (H)
T002 TERMINAL 1P
T001 TERMINAL 1P
W001
AC-CORD
ASSY, E
LIVE
NEUTRAL
76 SERIES

SCHEMATIC DIAGRAM(PT)

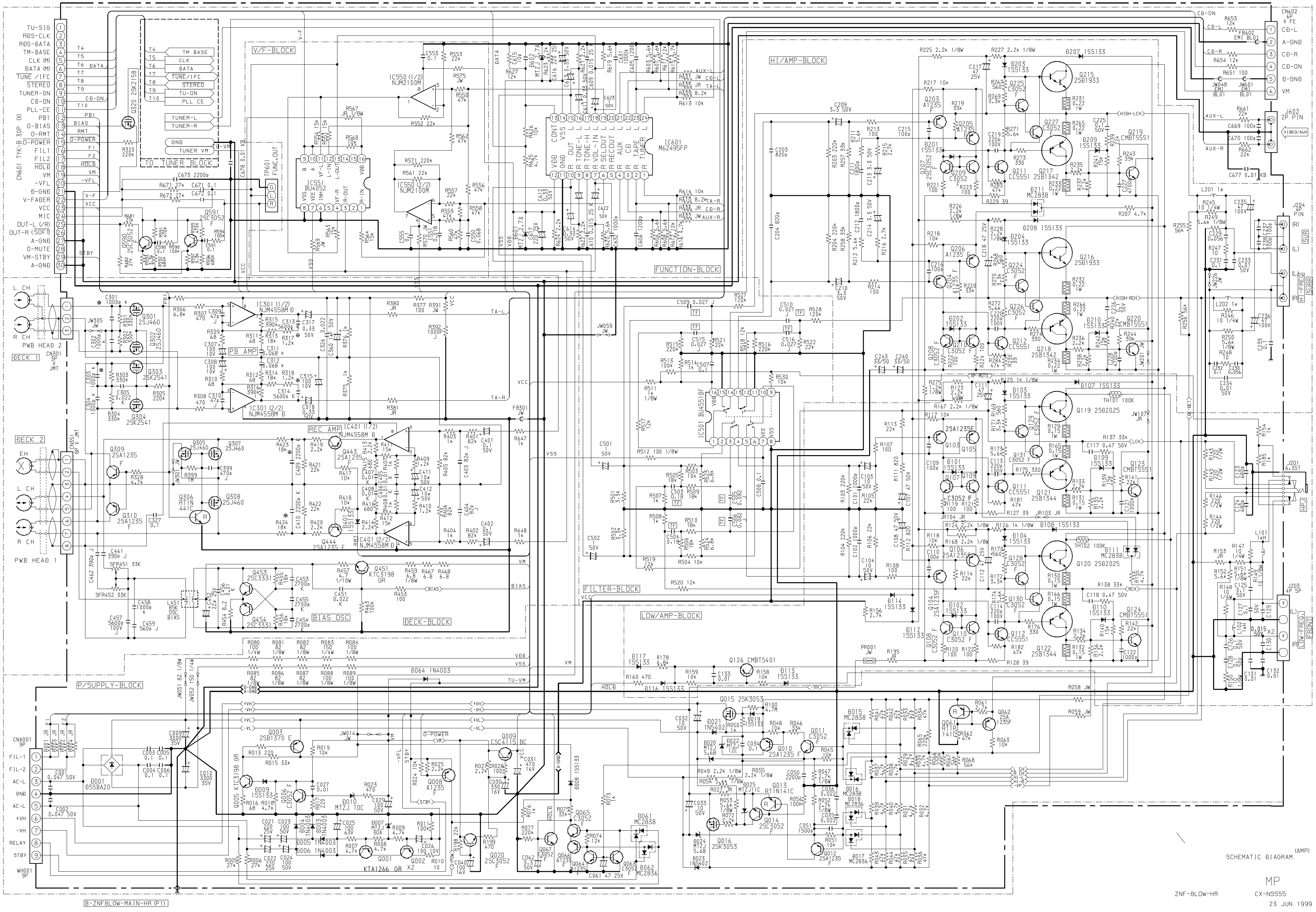
QC-8ZNF8-

ZNF-8LOW-LH CX-NS555

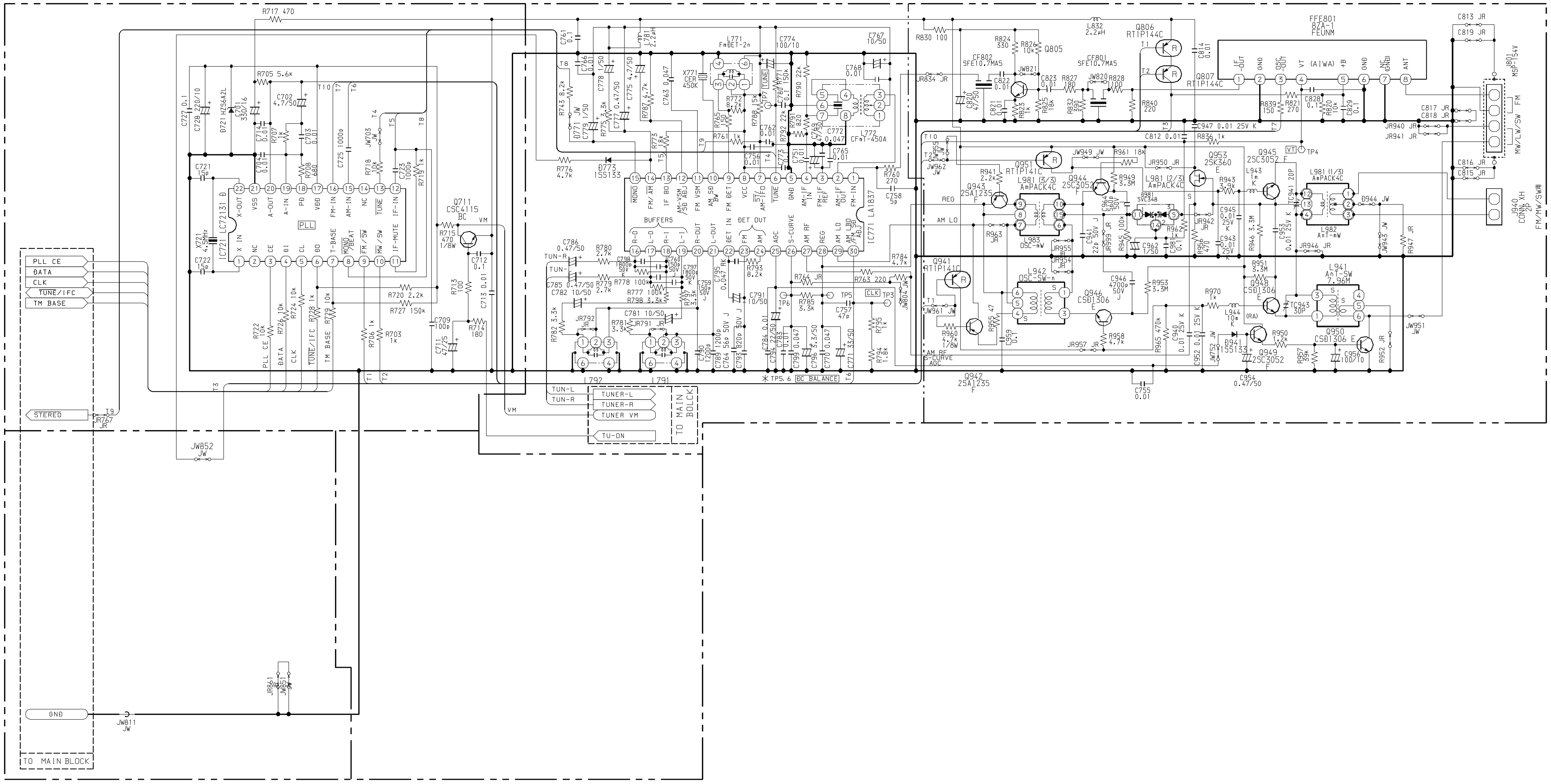
24 MAY 1999

B-ZNF8LOW-AC76-LH

SCHEMATIC DIAGRAM – 8 (MAIN)<HR/HA> 1/2


CN601 TYK-B 30P (X)
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE /IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
PB1
O-BIAS
O-RMT
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SDF)
A-GND
O-MUTE
VM-STBY
A-GND
TO TUNER BLOCK
V/F-BLOCK
FUNCTION-BLOCK
HI/AMP-BLOCK
IC601 M62495FP
IC551 BU4052
IC550 (1/2) NJM2100M
IC550 (2/2) NJM2100M
TP601 FUNC.OUT
PB AMP
REC AMP
BIAS OSC
DECK-BLOCK
FILTER-BLOCK
LOW/AMP-BLOCK
P/SUPPLY-BLOCK
IC301 (1/2) NJM4558M D
IC301 (2/2) NJM4558M D
IC401 (1/2) NJM4558M D
IC401 (2/2) NJM4558M D
IC501 BU4551BF
DECK 1
DECK 2
PWB HEAD 2
PWB HEAD 1
CN301 5P JMT
CN351 8P V JMT
CNA001 9P
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
WH001 9P
CN602 6P V FE
CD-L
A-GND
CD-R
CD-ON
D-GND
VM
J602 2P PIN
J204 4P PIN
J201 6.35T
J203 4P SP
SUB
HI-FREQ
SUBR
LOW-FREQ
FRONT
HPJ
B-ZNF8LOW-MAIN-HR (P1)
SCHEMATIC DIAGRAM (AMP)
MP
ZNF-8LOW-HR
CX-NS555
23 JUN 1999

SCHEMATIC DIAGRAM – 9 (MAIN)<HR/HA> 2/2


PLL CE
DATA
CLK
TUNE/IFC
TM BASE
STEREO
GND
TO MAIN BLOCK
JW852 JW
JW811 JW
JR861
IC721 LC72131 B
PLL
X721 4.5MHz
Q711 2SC4115 BC
VM
R717 470
R705 5.6k
D721 HZ5A2L
C721 15p
C722 15p
IC771 LA1837
BUFFERS
DET OUT
S-CURVE
AM RF
AM LO
REG
L771 FmDET-2n
L772 CFmT-450A
X771 CER 450K
D773 1SS133
L792
L791
TUN-L
TUN-R
TUNER-L
TUNER-R
TUNER VM
TU-ON
TO MAIN BOLCK
*TP5, 6 DC BALANCE
CLK
TP3
TP5
TP6
FFE801 8ZA-1 FEUNM
IF OUT
GND
OSC OUT
VT
(AIWA)
+B
GND
NC GND
ANT
CF801 SFE10.7MA5
CF802 SFE10.7MA5
Q805
Q806 RT1P144C
Q807 RT1P144C
L832 2.2μH
J940 CONN XH 2P FM/MW/SW
MW/LW/SW FM
C813 JR
C819 JR
C817 JR
C818 JR
C816 JR
C815 JR
JR940 JR
JR941 JR
Q941 RT1P141C
Q942 2SA1235 F
Q943 2SA1235 F
Q944 2SC3052
Q945 2SC3052 F
Q946 CSD1306 E
Q948 CSD1306 E
Q949 2SC3052
Q950 CSD1306 E
Q951 RT1P141C
Q953 2SK360 E
L981 (3/3) AmPACK4C
L981 (2/3) AmPACK4C
L981 (1/3) AmPACK4C
L982 AnT-mW
L983 OSC-mW
L942 OSC-SW-n
L941 AnT-SW 7.96M
D944 JW
D941 1SS133
D981 SVC348
AM RF S-CURVE AGC
JW951 JW

(TUNER)
SCHEMATIC DIAGRAM

MP

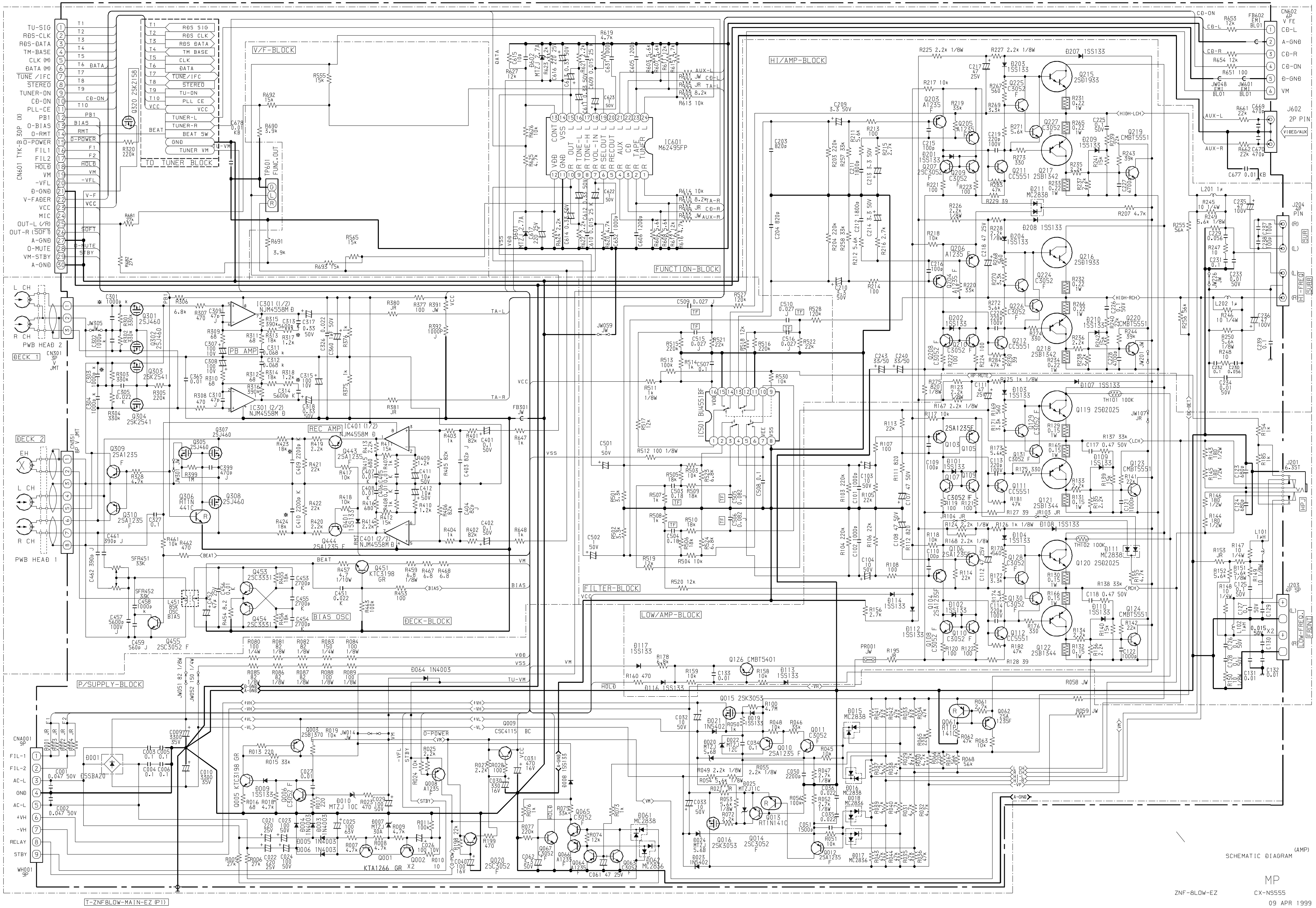
ZNF-8LOW-HR

CX-NS555

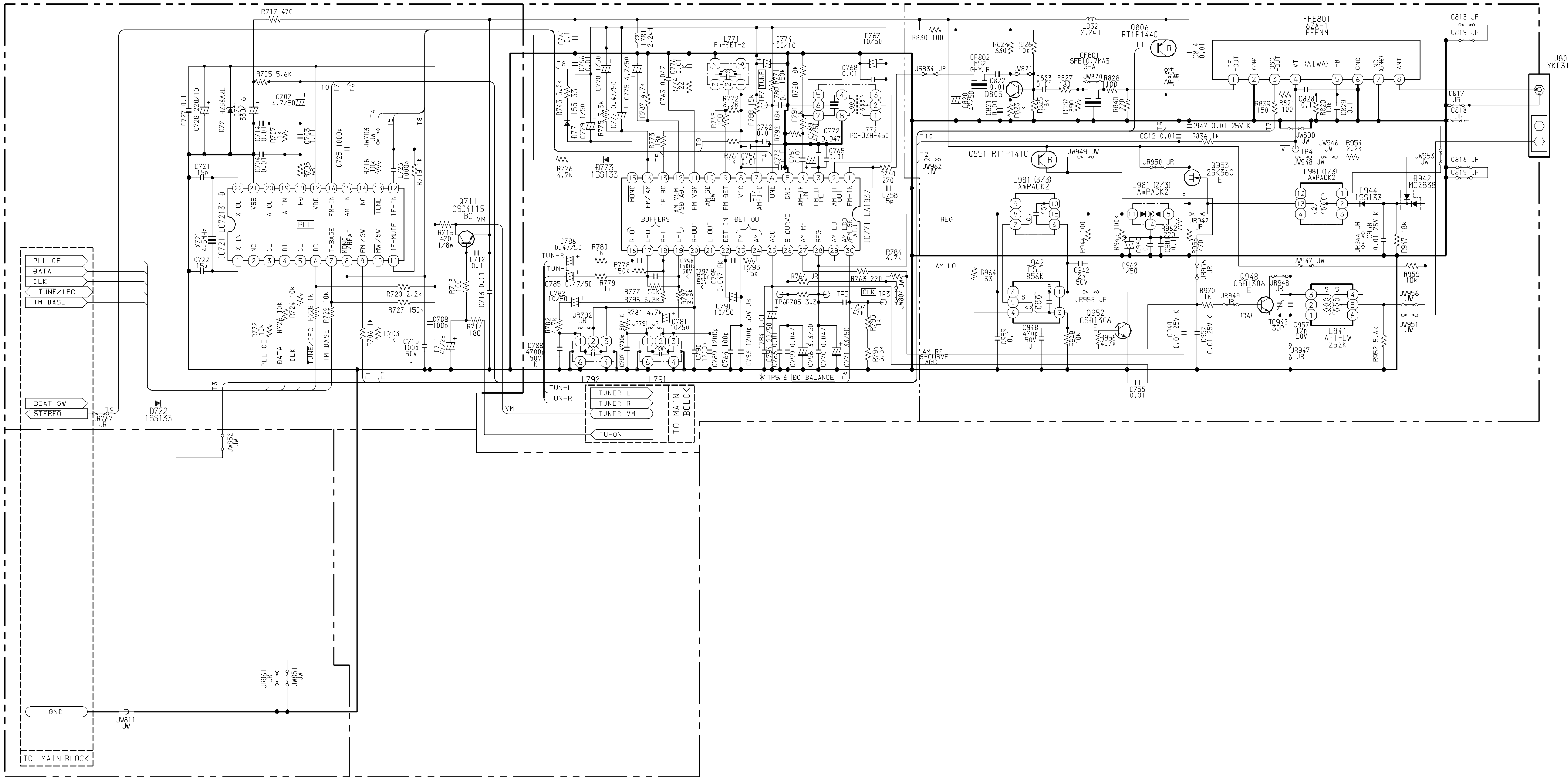
23 JUN 1999

B-ZNF8LOW-MAIN-HR (P2)

SCHEMATIC DIAGRAM – 10 (MAIN)<555EZ/K> 1/2


CN601 TYK-B 30P (X)
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE/IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
PB1
D-BIAS
D-RMT
D-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SOFT)
A-GND
D-MUTE
VM-STBY
A-GND
TD TUNER BLOCK
V/F-BLOCK
TP601 FUNC.OUT
IC601 M62495FP
FUNCTION-BLOCK
HI/AMP-BLOCK
CN602 6P V FE
CD-L
A-GND
CD-R
CD-ON
D-GND
VM
J602 2P PIN
VIDEO/AUX
AUX-L
AUX-R
J204 4P PIN
SUBW
HI-FREQ
J201 6.35T
HPJ
J203 4P PIN
LOW-FREQ
FRONT
L CH
R CH
PWB HEAD 2
DECK 1
CN301 3P JMT
DECK 2
CN351 8P JMT
EH
PWB HEAD 1
IC301 (1/2) NJM4558M D
IC301 (2/2) NJM4558M D
PB AMP
REC AMP
IC401 (1/2) NJM4558M D
IC401 (2/2) NJM4558M D
BIAS OSC
DECK-BLOCK
IC501 BU4551BF
FILTER-BLOCK
LOW/AMP-BLOCK
P/SUPPLY-BLOCK
CNA001 9P
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
WH001 9P
D001 D5SBA20
D-POWER
SCHEMATIC DIAGRAM (AMP)
MP
ZNF-8LOW-EZ
CX-NS555
09 APR 1999
T-ZNF8LOW-MAIN-EZ (P1)

SCHEMATIC DIAGRAM – 11 (MAIN)<555EZ/K> 2/2


IC721 LC72131 D
PLL
X721 4.5MHz
Q711 2SC4115
IC771 LA1837
BUFFERS
L771 FM-DET-2
L772 PCFJZH-450
L791
L792
DC BALANCE
FF801 6ZA-1 FEENM
CF801 SFE10.7MA3
CF802
Q805
Q806 RT1P144C
Q951 RT1P141C
Q953 2SK360
L981 (1/3) A-PACK2
L981 (2/3) A-PACK2
L981 (3/3) A-PACK2
L942 OSC 856K
L941 ANT-LW 252K
Q948 CSD1306
Q952 CSD1306
D944 1SS133
D942 MC2838
J802 YKO31-0
PLL CE
DATA
CLK
TUNE/IFC
TM BASE
BEAT SW
STEREO
GND
TO MAIN BLOCK
TUN-L
TUN-R
TUNER-L
TUNER-R
TUNER VM
TU-ON
TO MAIN BOLCK
REG
AM LO
AM RF
S-CURVE
AGC

(TUNER)
SCHEMATIC DIAGRAM

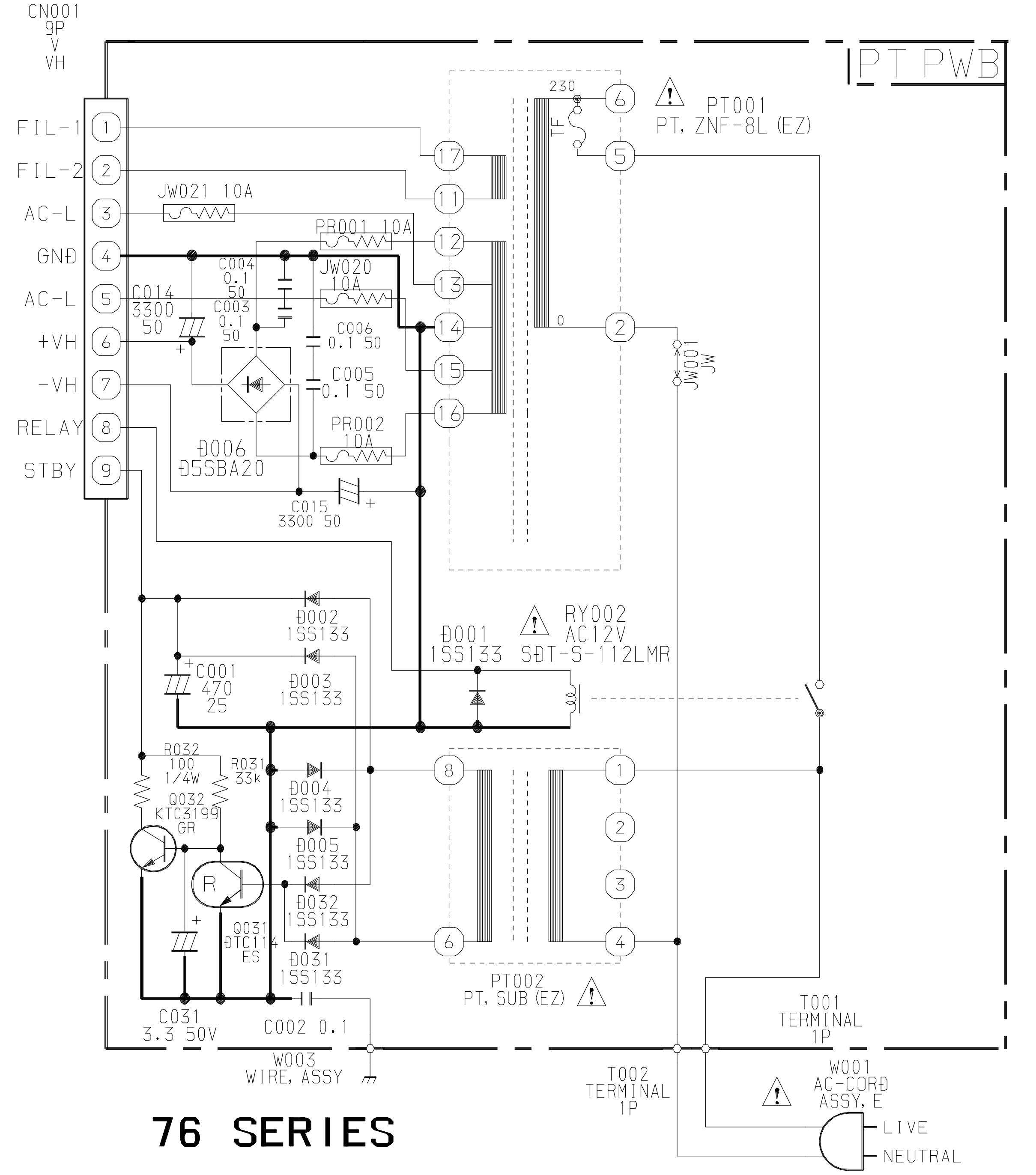
MP

ZNF-BLOW-EZ, K, G

CX-NS555

23 JUN 1999

B-ZNFBLOW-MAIN-EZ (P2)


CN001
9P
V
VH
FIL-1 1
FIL-2 2
AC-L 3
GND 4
AC-L 5
+VH 6
-VH 7
RELAY 8
STBY 9
PT PWB
JW021 10A
PR001 10A
JW020 10A
C004 0.1 50
C003 0.1 50
C014 3300 50
C006 0.1 50
C005 0.1 50
PR002 10A
D006 D5SBA20
C015 3300 50
PT001
PT, ZNF-8L (EZ)
230
TF
0
JW001 JW
D002 1SS133
D003 1SS133
D001 1SS133
RY002 AC12V
SDT-S-112LMR
C001 470 25
R032 100 1/4W
R031 33k
Q032 KTC3199 GR
Q031 DTC114 ES
R
D004 1SS133
D005 1SS133
D032 1SS133
D031 1SS133
PT002
PT, SUB (EZ)
C031 3.3 50V
C002 0.1
W003 WIRE, ASSY
T001 TERMINAL 1P
T002 TERMINAL 1P
W001 AC-CORD ASSY, E
LIVE
NEUTRAL
76 SERIES

SCHEMATIC DIAGRAM (PT)

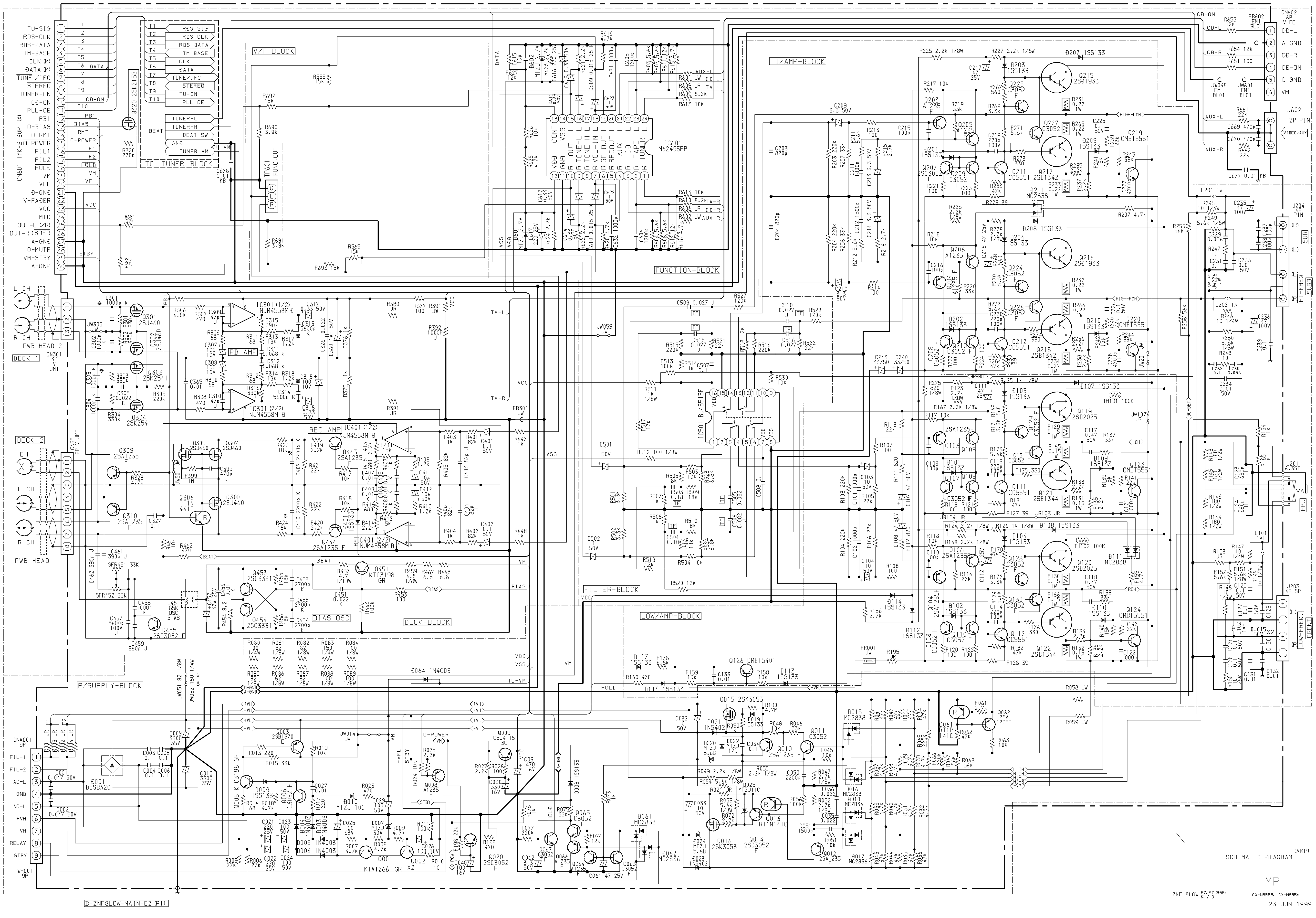
QC-8ZNF8-

ZNF-8 CX-NS555/556

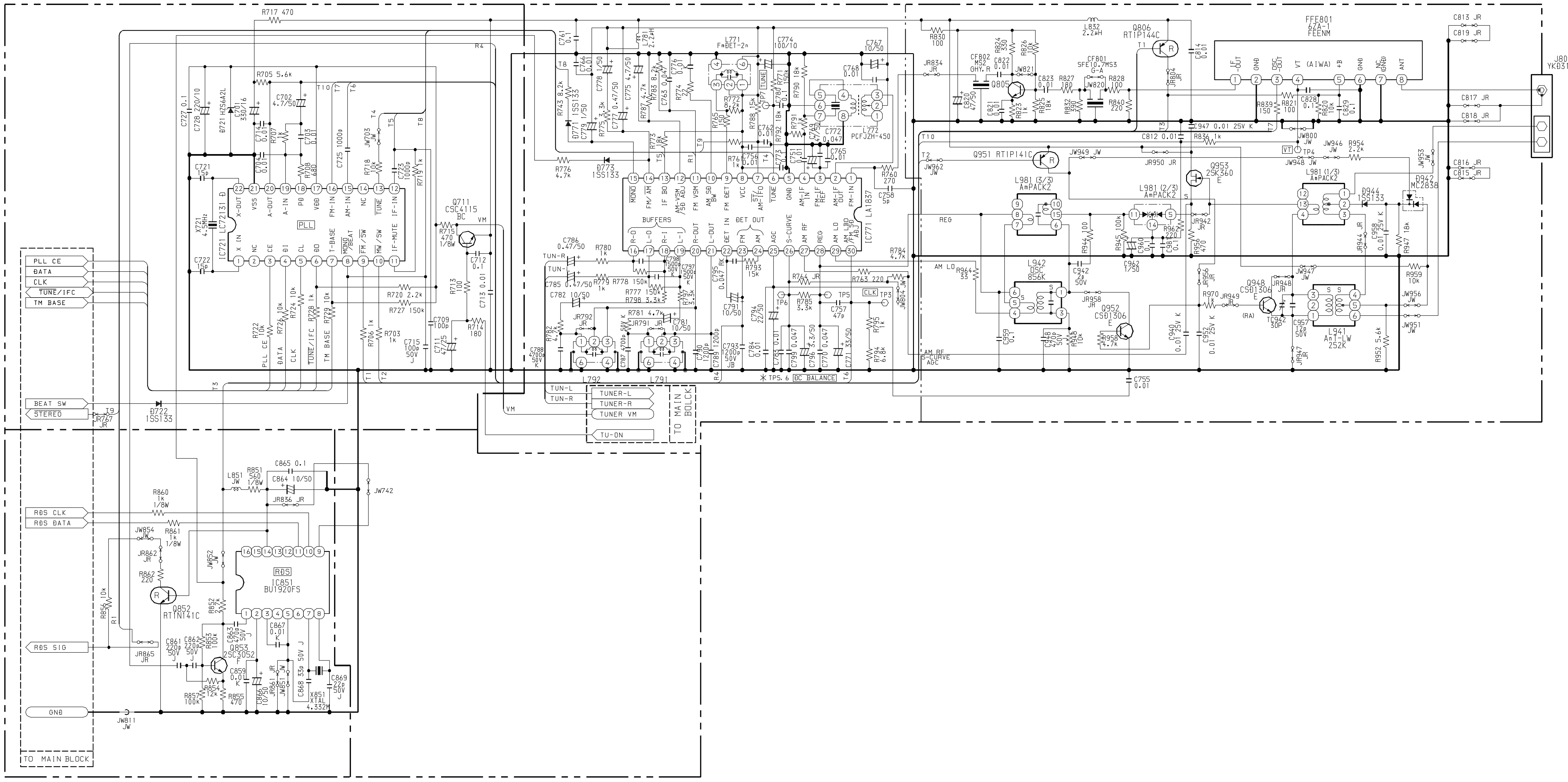
26 APR 1999

B-ZNF8LOW-AC76-EZ

SCHEMATIC DIAGRAM – 13 (MAIN)<556EZ> 1/2


V/F-BLOCK
FUNCTION-BLOCK
HI/AMP-BLOCK
LOW/AMP-BLOCK
FILTER-BLOCK
DECK-BLOCK
P/SUPPLY-BLOCK
TO TUNER BLOCK
PB AMP
REC AMP
BIAS OSC
CN601 TYK-B 30P (X)
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE /IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
PB1
O-BIAS
O-RMT
D-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SOFT)
A-GND
O-MUTE
VM-STBY
A-GND
IC601 M62495FP
IC501 BU4551BF
IC301 (1/2) NJM4558M D
IC301 (2/2) NJM4558M D
IC401 (1/2) NJM4558M D
IC401 (2/2) NJM4558M D
Q320 2SK2158
TP601 FUNC.OUT
PWB HEAD 2
DECK 1
DECK 2
PWB HEAD 1
L CH
R CH
EH
CN301 3P JMT
CN351 8P V JMT
Q215 2SB1933
Q216 2SB1933
Q217 2SB1342
Q218 2SB1342
Q119 2SD2025
Q120 2SD2025
Q121 2SB1344
Q122 2SB1344
Q126 CMBT5401
Q015 2SK3053
CN602 6P V FE
CD-L
A-GND
CD-R
CD-ON
D-GND
VM
J602 2P PIN
VIDEO/AUX
J204 4P PIN
SUR
HI-FREQ
J201 6.35T
HPJ
J203 4P SP
LOW-FREQ
FRONT
CNA001 9P
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
WH001 9P
D001 D5SBA20
B-ZNF8LDW-MAIN-EZ (P1)
SCHEMATIC DIAGRAM (AMP)
MP
ZNF-BLDW-EZ,EZ (RDS) K,K,0
CX-NS555 CX-NS556
23 JUN 1999

SCHEMATIC DIAGRAM – 14 (MAIN)<556EZ> 2/2


IC721 LC72131 D
PLL
IC771 LA1837
IC851 BU1920FS
RDS
Q711 CSC4115
Q805
Q806 RT1P144C
Q951 RT1P141C
Q952 CSD1306
Q953 2SK360
Q948 CSD1306
Q852 RT1N141C
Q853 2SC3052
FFE801 6ZA-1 FEENM
J802 YKD51-0
CF801 SFE10.7MS3 G-A
CF802 MS2 GHY.R
L771 F.DET-2n
L772 PCFJZH-450
L981 (3/3) AMPACK2
L981 (2/3) AMPACK2
L981 (1/3) AMPACK2
L942 OSC 856K
L941 Ant-LW 252K
D942 MC2838
D944 1SS133
D721 HZ5642L
D722 1SS133
D771 1SS133
D773 1SS133
X721 4.5MHz
X851 XTAL 4.332M
PLL CE
DATA
CLK
TUNE/IFC
TM BASE
BEAT SW
STEREO
RDS CLK
RDS DATA
RDS SIG
GND
TO MAIN BLOCK
TUN-L
TUN-R
TUNER-L
TUNER-R
TUNER VM
TU-ON
TO MAIN BOLCK
L792
L791
TP5, 6 DC BALANCE
AM RF
S-CURVE
ADC
REG
AM LO
VT
CLK

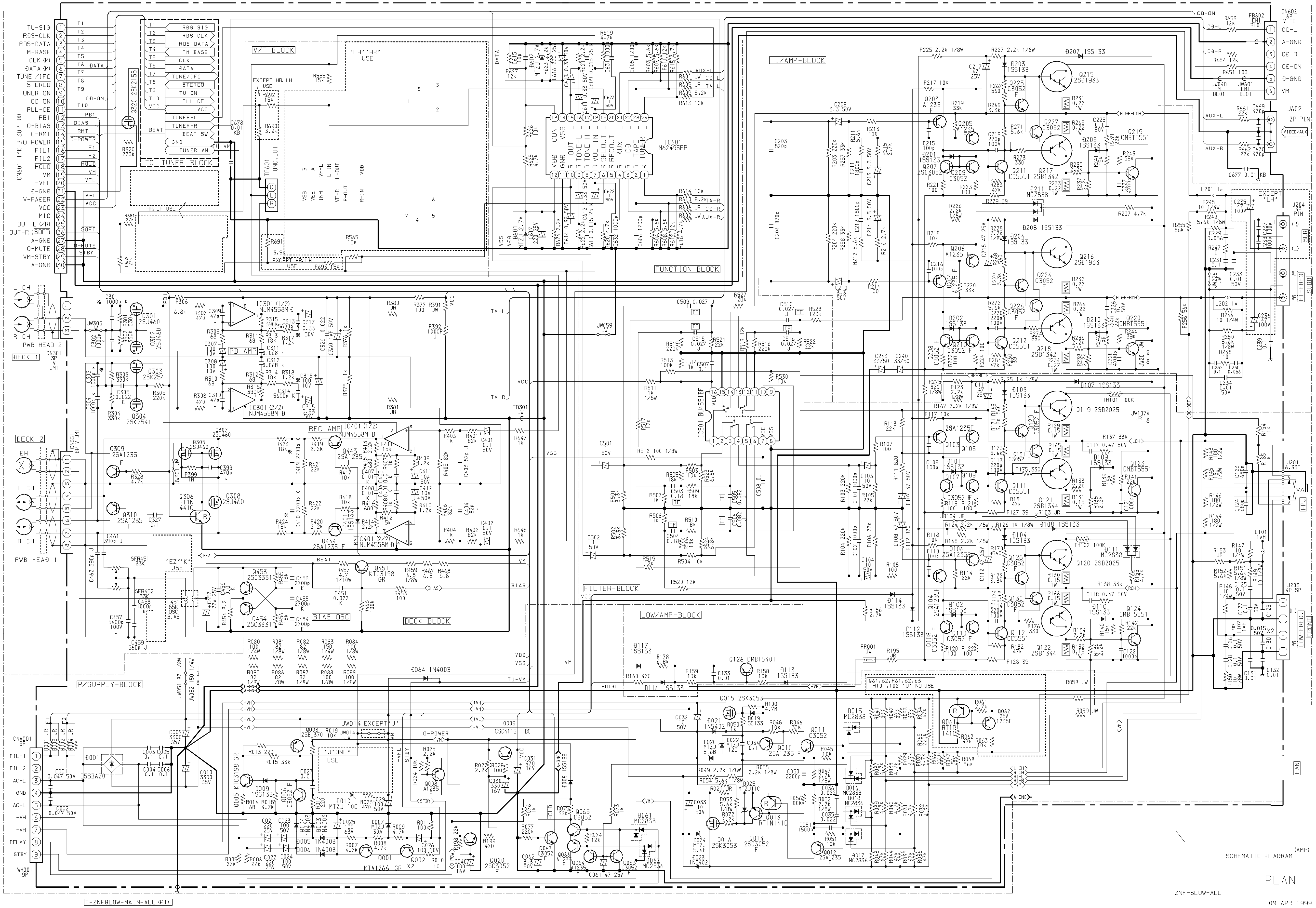
MP

(TUNER)
SCHEMATIC DIAGRAM

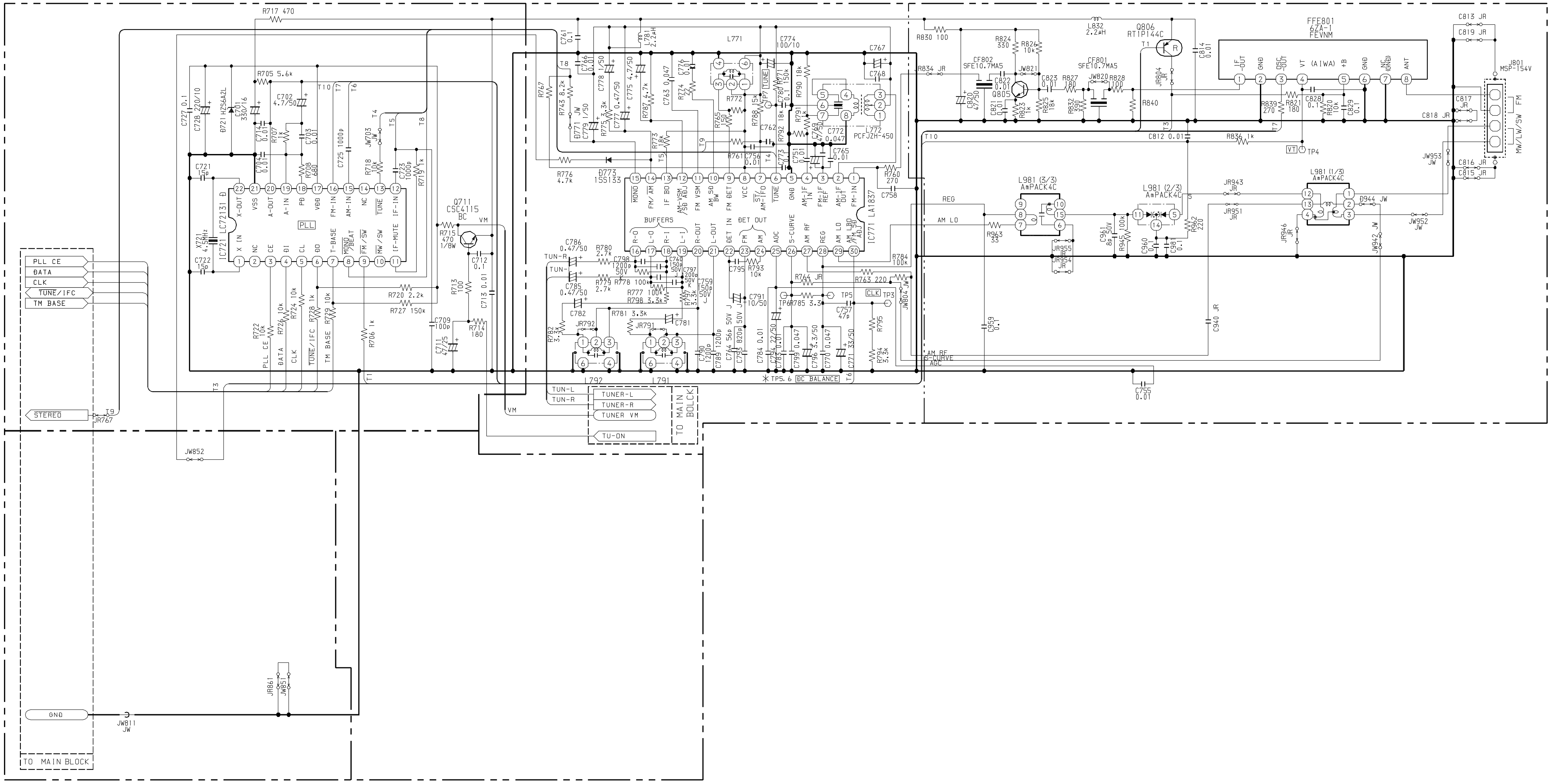
ZNF-8LOW-EZ (RDS)
CX-NS556
23 JUN 1999

B-ZNF8LOW-MAIN-EZ (RDS) (P2)

SCHEMATIC DIAGRAM – 15 (MAIN)<V> 1/2


CN601 TYK-B 30P
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE /IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
PB1
O-BIAS
O-RMT
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SOFT)
A-GND
O-MUTE
VM-STBY
A-GND
TO TUNER BLOCK
HR,LH USE
V/F-BLOCK
EXCEPT HR,LH USE
"LH""HR" USE
TP601 FUNC.OUT
FUNCTION-BLOCK
IC601 M62495FP
HI/AMP-BLOCK
CN602 6P V FE
CD-L
A-GND
CD-R
CD-ON
D-GND
VM
J602 2P PIN
VIDEO/AUX
EXCEPT "LH"
J204 4P PIN
SUR
HI-FREQ
SUBB
J201 6.3ST
HP
J203 4P SP
LOW-FREQ
FRONT
DECK 1
PWB HEAD 2
DECK 2
PWB HEAD 1
IC301 (1/2) NJM4558M D
IC301 (2/2) NJM4558M D
PB AMP
REC AMP
IC401 (1/2) NJM4558M D
IC401 (2/2) NJM4558M D
"EZ""K" USE
BIAS OSC
DECK-BLOCK
FILTER-BLOCK
IC501 BU4551BF
LOW/AMP-BLOCK
Q119 2SB2025
Q120 2SD2025
Q215 2SD1933
Q216 2SD1933
Q217 2SB1342
Q218 2SB1342
Q121 2SB1344
Q122 2SB1344
P/SUPPLY-BLOCK
CNA001 9P
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
WH001 9P
D001 ESSBA20
JW014 EXCEPT"U"
"U"ONLY USE
O-POWER
Q001 KTA1266 GR
Q126 CMBT5401
Q015 2SK3053
Q061,62,R61,62,63 TH101,102 "U" NO USE
FAN
SCHEMATIC DIAGRAM (AMP)
PLAN
ZNF-8LOW-ALL
09 APR 1999
T-ZNF8LOW-MAIN-ALL (P1)

SCHEMATIC DIAGRAM – 16 (MAIN)<V> 2/2


PLL CE
DATA
CLK
TUNE/IFC
TM BASE
STEREO
GND
TO MAIN BLOCK
IC721 LC72131-D
PLL
X721 4.5MHz
Q711 CSC4115 BC
VM
IC771 LA1837
BUFFERS
DET OUT
L771
L772 PCFJZH-450
D773 1SS133
L792
L791
TUN-L
TUN-R
TUNER-L
TUNER-R
TUNER VM
TU-ON
TO MAIN BLOCK
DC BALANCE
TP5, 6
TP3
TP4
CLK
FFE801 6ZA-1 FEVNM
(AIWA)
IF OUT
GND
OSC OUT
VT
+B
GND
NC GND
ANT
Q806 RTIP144C
Q805
L832 2.2µH
CF802 SFE10.7MA5
CF801 SFE10.7MA5
L981 (1/3) AMPACK4C
L981 (2/3) AMPACK4C
L981 (3/3) AMPACK4C
REG
AM LO
AM RF
S-CURVE
AGC
J801 MSP-154V
FM
MW/LW/SW
JW811
JW852
JR767
R717 470
R705 5.6k
C755 0.01

(TUNER)
SCHEMATIC DIAGRAM

MP

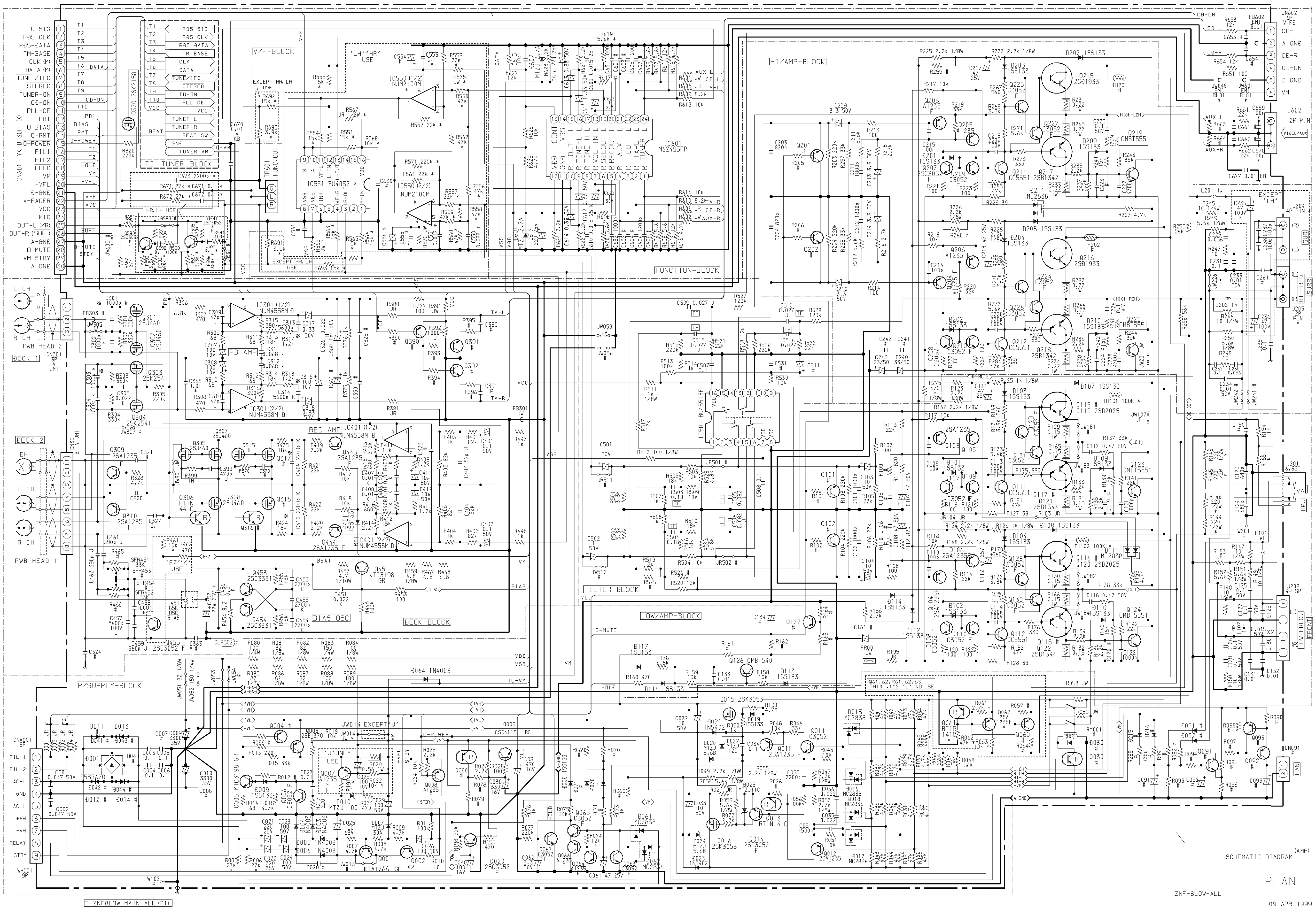
ZNF-8LOW-V

CX-NS555

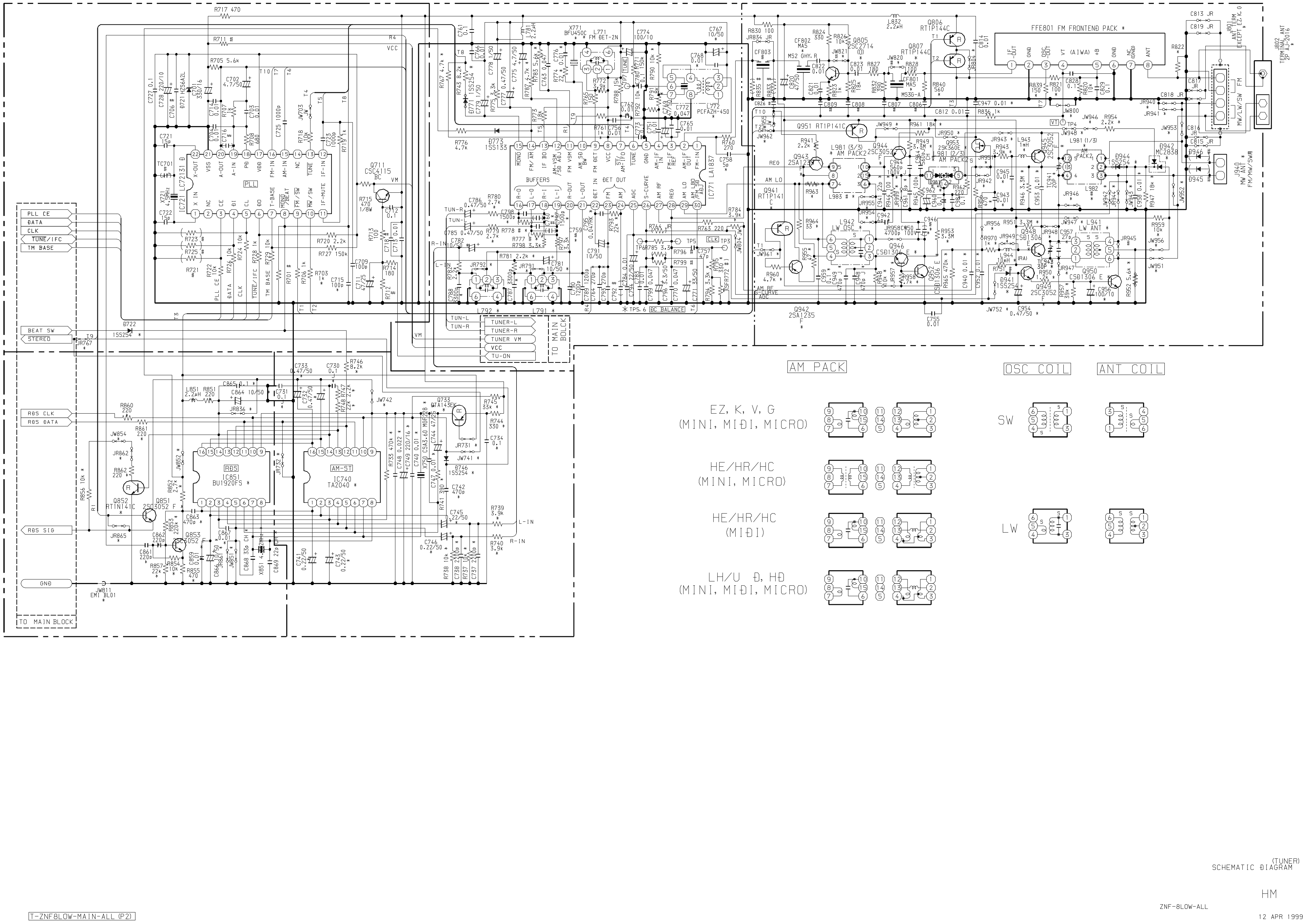
23 JUN 1999

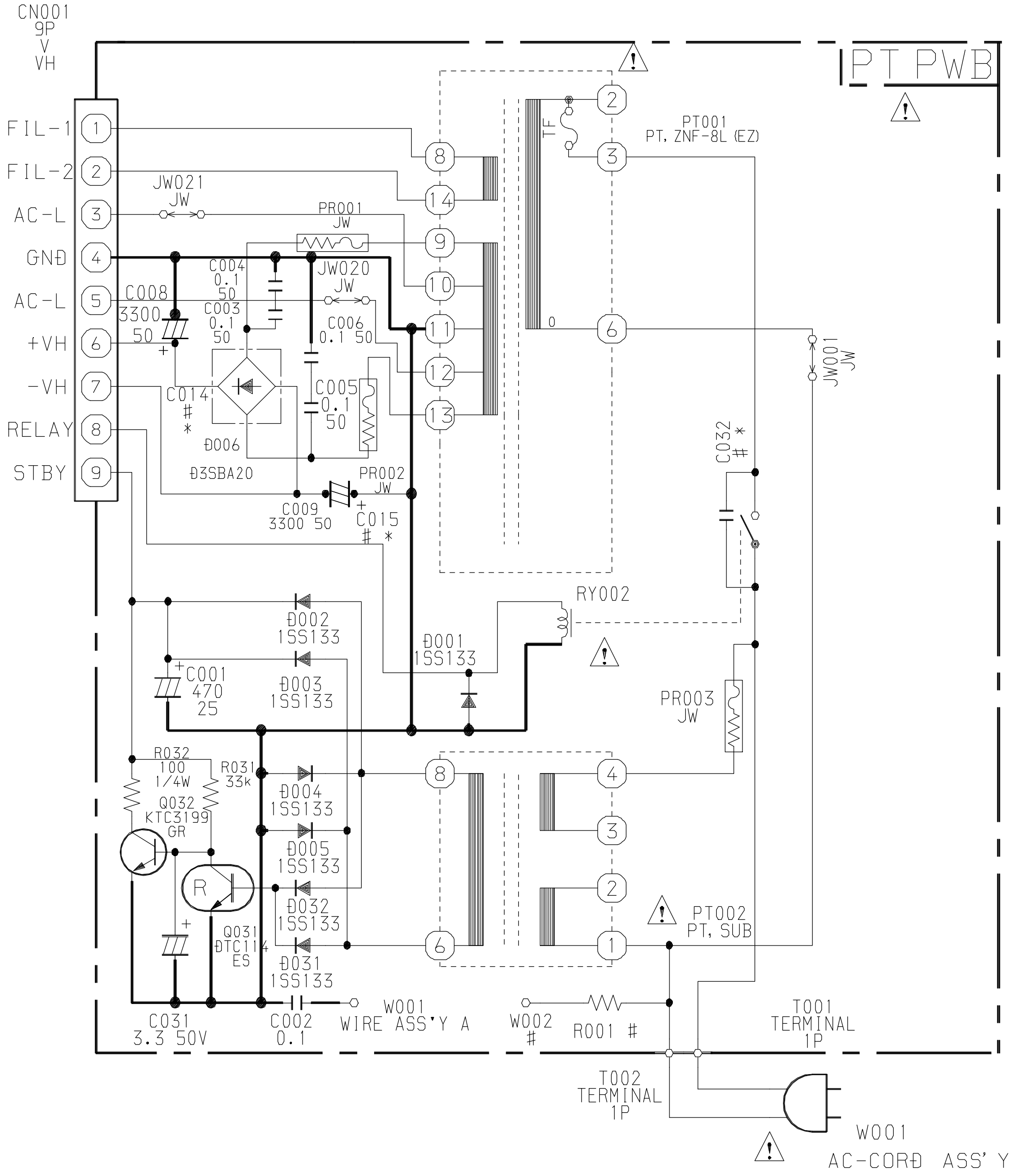
B-ZNF8LOW-MAIN-V (P2)

SCHEMATIC DIAGRAM – 17 (MAIN)<G> 1/2


V/F-BLOCK
FUNCTION-BLOCK
HI/AMP-BLOCK
LOW/AMP-BLOCK
FILTER-BLOCK
DECK-BLOCK
P/SUPPLY-BLOCK
TO TUNER BLOCK
PB AMP
REC AMP
BIAS OSC
IC551 BU4052
IC550 NJM2100M
IC601 M62495FP
IC301 NJM4558M D
IC401 NJM4558M D
IC501 BU4551BF
CN601 TYK-B 30P (X)
CN602 6P
CN301 3P JMT
CN351 8P V JMT
CNA001 9P
CN091 2P
J201 6.3ST
J202 4P PIN
J203 4P SP
J204 4P PIN
J205 2P PIN
DECK 1
DECK 2
PWB HEAD 2
PWB HEAD 1
TU-SIG
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE / IFC
STEREO
TUNER-ON
CD-ON
PLL-CE
PB1
O-BIAS
O-RMT
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
V-FADER
VCC
MIC
OUT-L (/R)
OUT-R (SOFT)
A-GND
D-MUTE
VM-STBY
A-GND
CD-L
A-GND
CD-R
D-GND
VM
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
FAN
SURR
FRONT
SW-FREQ
HI-FREQ
HP
SCHEMATIC DIAGRAM (AMP)
PLAN
ZNF-8LOW-ALL
09 APR 1999
T-ZNF8LOW-MAIN-ALL (P1)

SCHEMATIC DIAGRAM – 18 (MAIN)<G> 2/2


PLL CE
DATA
CLK
TUNE/IFC
TM BASE
BEAT SW
STEREO
RDS CLK
RDS DATA
RDS SIG
GND
TO MAIN BLOCK
IC721 LC72131 D
PLL
Q711 CSC4115 BC
IC771 LA1837
BUFFERS
DET OUT
X771 BFU450C
L771 FM DET-2N
L772 PCFAZH-450
L792
L791
DC BALANCE
TUN-L
TUN-R
TUNER-L
TUNER-R
TUNER VM
VCC
TU-ON
TO MAIN BOLCK
IC851 BU1920FS
RDS
IC740 TA2040
AM-ST
Q733 DTA143EE
D746 1SS254
X851 4.332MHz
Q852 RT1N141C
Q851 2SC3052 F
Q853 2SC3052 F
L-IN
R-IN
JW811 EMI BL01
FFE801 FM FRONTEND PACK
(AIWA)
Q806 RT1P144C
Q805 2SC2714
Q807 RT1P144C
Q951 RT1P141C
Q943 2SA1235
Q944 2SC3052
Q953 2SK360E
Q941 RT1P141C
Q946 CSD1306 E
Q948 CSD1306
Q949 2SC3052
Q950 CSD1306 E
Q942 2SA1235 F
Q952 CSD1306 E
D942 MC2838
D944 1SS254
D941 1SS254
L981 AM PACK2
L982
L983
L942 LW OSC
L941 LW ANT
L943 1mH
J802 TERMINAL ANT
J801 ANT TERM EXCEPT EZ,K,G
J940 MW ANT
FM/MW/SW
MW/LW/SW FM
AM PACK
OSC COIL
ANT COIL
EZ, K, V, G (MINI, MIDI, MICRO)
HE/HR/HC (MINI, MICRO)
HE/HR/HC (MIDI)
LH/U D, HD (MINI, MIDI, MICRO)
SW
LW
(TUNER) SCHEMATIC DIAGRAM
HM
ZNF-8LOW-ALL
12 APR 1999
T-ZNF8LOW-MAIN-ALL (P2)


CN001
9P
V
VH
FIL-1
FIL-2
AC-L
GND
AC-L
+VH
-VH
RELAY
STBY
PT PWB
JW021
JW
PR001
JW
C004
0.1
50
C003
0.1
50
JW020
JW
C008
3300
50
C006
0.1 50
C005
0.1
50
C014
# *
D006
D3SBA20
PR002
JW
C009
3300 50
C015
# *
PT001
PT. ZNF-8L (EZ)
TF
JW001
JW
C032
# *
RY002
D002
1SS133
D001
1SS133
C001
470
25
D003
1SS133
PR003
JW
R032
100
1/4W
R031
33k
Q032
KTC3199
GR
D004
1SS133
D005
1SS133
D032
1SS133
Q031
DTC114
ES
D031
1SS133
PT002
PT. SUB
C031
3.3 50V
C002
0.1
W001
WIRE ASS'Y A
W002
#
R001 #
T001
TERMINAL
1P
T002
TERMINAL
1P
W001
AC-CORD ASS'Y

Y.KONDO

SCHEMATIC DIAGRAM(PT)

T-ZNF8LOW-AC-EZ

27 JUL 1999

サービス技術ニュース	
番号	連絡内容
G－　　－	
G－　　－	
G－　　－	

アイワ株式会社
AIWA CO.,LTD.

9820527

Tokyo Japan

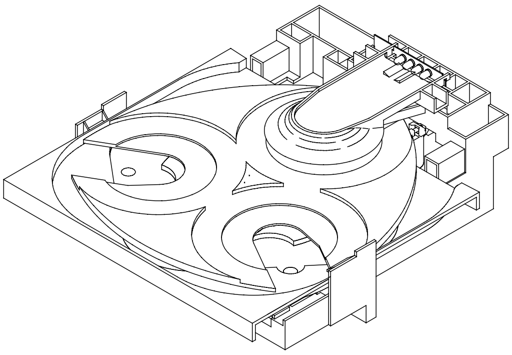
〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111（代表）

Printed in Singapore

aiwa

aiwa SERVICE

4ZG-1



CD MECHANISM

- BASIC CD MECHANISM:3ZG-2 E1
- TYPE: English

SERVICE MANUAL

BASIC NAME	DERIVATION NAME					
4ZG-1	V	O	S1	D	SH	

■ This Service Manual has various derivation.Derivation name is indicated by the Service Manual for each model.

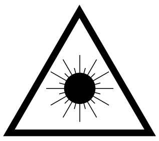
S/M Code No. 09-985-249-80T

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- ■ Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- ■ Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

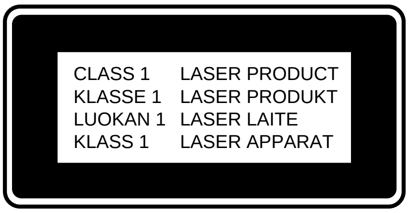
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



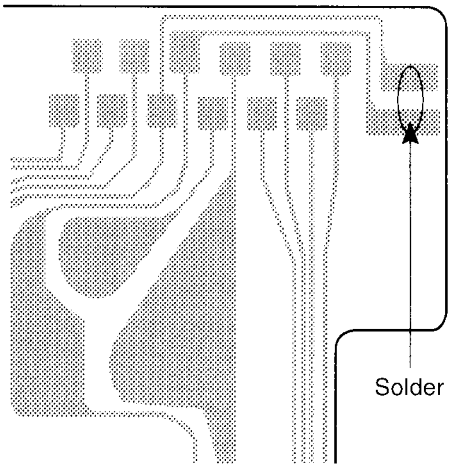
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



This is the SERVICE MANUAL for the BASIC CD MECHANISM of BASIC NAME: 4ZG-1. This BASIC NAME includes the following models as shown under the SUFFIX name: DERIVATION NAME. Please use this manual with the separate SERVICE MANUAL for DERIVATION NAME.

BASIC CD MECHANISM: 4ZG-1 VOS1DSH

SUFFIX
(DERIVATION NAME)

BASIC NAME: 4ZG-1

BASIC NAME	DERIVATION NAME							
4ZG-1	V	O	S1	D	SH	—	—	—

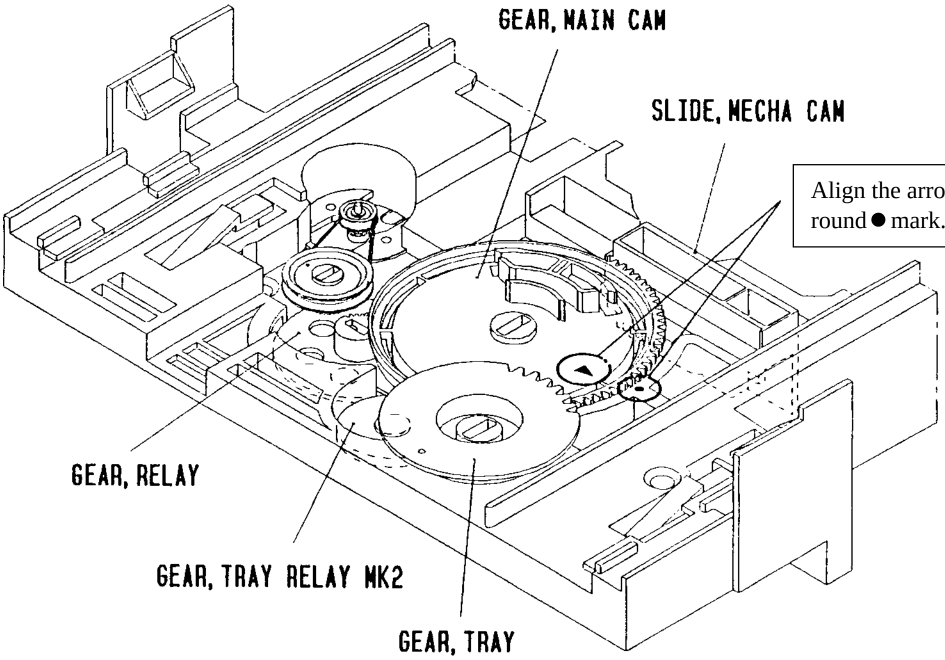
DERIVATION NAME

V: VIDEO OUT
O: On screen display
S1: THE 1st SONY IC MODEL
D: Digital output function
SH: Pick up equipped with shutter

How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.


GEAR, MAIN CAM
SLIDE, MECHA CAM
GEAR, RELAY
GEAR, TRAY RELAY MK2
GEAR, TRAY

Align the arrow ▶ mark with the black round ● mark.

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-547-010		C-IC,CXA1992AR
	87-A20-919-040		C-IC,BA5915FP
	87-A20-917-010		C-IC,CXD2540Q-1/2
	84-ZG1-697-010		C-IC,UPD78016FGC-549
	87-017-825-010		IC,GP1F32T
	87-017-760-080		IC,M51943BML
	87-A20-602-040		C-IC,M5291FP
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-001-873-010		IC,LB1644
	87-A20-920-010		C-IC,CL680-D1
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-656-040		C-IC,MB81V4260S-60/70PFTN
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A20-974-040		C-IC,LC74781M-9017
	87-A20-918-040		C-IC,SM5878AM
TRANSISTOR			
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-237-080		CHIP-TR,DTC124XK
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-231-080		CHIP-TRANSISTER,DTA124XK
	87-A30-117-010		TR,2SA1357
	89-111-625-080		TR,2SA1162 (0.15W)
	87-026-580-080		C-TR,DTA123JK
	87-026-470-080		TR,HN1C03F (0.3W)
DIODE			
	87-020-027-080		CHIP-DIODE 1SS184
	87-017-024-040		C-DIODE,DA204K
	87-A40-180-040		C-DIODE,SB07-015C
	87-A40-384-080		C-ZENER,UDZ3.3B
3CD C.B			
C101	87-010-182-080		C-CAP,S 2200P-50 B
C102	87-016-669-080		C-CAP,S 0.1-25 K B
C103	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-404-040		CAP,E 4.7-50 SME
C106	87-016-369-080		C-CAP,S 0.033-25 B K
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-401-040		CAP,E 1-50 SME
C109	87-010-382-040		CAP,E 22-25 SME
C110	87-010-213-080		C-CAP,S 0.015-50 B
C111	87-010-263-040		CAP,E 100-10
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-016-369-080		C-CAP,S 0.033-25 B K
C114	87-016-369-080		C-CAP,S 0.033-25 B K
C115	87-016-369-080		C-CAP,S 0.033-25 B K
C116	87-012-158-080		C-CAP,S 390P-50 CH
C117	87-012-154-080		C-CAP,S 150P-50 CH
C118	87-010-494-040		CAP,E 1-50 GAS
C119	87-010-152-080		C-CAP,S 8P-50 CH
C120	87-010-992-080		C-CAP,S 0.047-25 B
C121	87-010-992-080		C-CAP,S 0.047-25 B
C123	87-016-669-080		C-CAP,S 0.1-25 K B
C125	87-010-198-080		CAP, CHIP 0.022
C126	87-016-669-080		C-CAP,S 0.1-25 K B
C127	87-010-555-040		CAP,E 100-10 GAS
C130	87-010-555-040		CAP,E 100-10 GAS
C131	87-010-555-040		CAP,E 100-10 GAS
C132	87-010-178-080		CHIP CAP 1000P
C133	87-010-555-040		CAP,E 100-10 GAS
C134	87-010-196-080		CHIP CAPACITOR,0.1-25
C135	87-010-196-080		CHIP CAPACITOR,0.1-25
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-182-080		C-CAP,S 2200P-50 B
C139	87-010-197-080		CAP, CHIP 0.01 DM
C140	87-010-112-040		CAP,E 100-16
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C142	87-010-196-080		CHIP CAPACITOR,0.1-25
C143	87-010-213-080		C-CAP,S 0.015-50 B
C151	87-010-263-040		CAP,E 100-10
C152	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-A10-893-040		CAP,E 220-10 M PW
C154	87-010-197-080		CAP, CHIP 0.01 DM
C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
C156	87-010-992-080		C-CAP,S 0.047-25 B
C157	87-010-992-080		C-CAP,S 0.047-25 B
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-016-526-080		C-CAP,S 0.47-16 BK
C160	87-010-314-080		C-CAP,S 22P-50V
C161	87-010-182-080		C-CAP,S 2200P-50 B
C162	87-010-178-080		CHIP CAP 1000P
C201	87-016-669-080		C-CAP,S 0.1-25 K B
C204	87-010-197-080		CAP, CHIP 0.01 DM
C205	87-010-379-040		CAP,E 22-16 M SME
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-016-669-080		C-CAP,S 0.1-25 K B
C211	87-010-263-040		CAP,E 100-10
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-016-251-040		CAP,E 220-16 SMG
C302	87-012-140-080		CAP 470P
C303	87-010-178-080		CHIP CAP 1000P
C304	87-010-384-040		CAP,E 100-25 SME
C305	87-010-982-040		CAP,E 33-25 GAS
C306	87-010-112-040		CAP,E 100-16
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C308	87-010-263-040		CAP,E 100-10
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-263-040		CAP,E 100-10
C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-178-080		CHIP CAP 1000P
C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-016-044-040		CAP,E 100-16 GAS
C402	87-010-190-080		S CHIP F 0.01
C403	87-010-190-080		S CHIP F 0.01
C501	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-154-080		CAP CHIP 10P
C505	87-010-154-080		CAP CHIP 10P
C506	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-010-263-040		CAP,E 100-10
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-263-040		CAP,E 100-10
C511	87-016-669-080		C-CAP,S 0.1-25 K B
C512	87-010-197-080		CAP, CHIP 0.01 DM
C513	87-010-197-080		CAP, CHIP 0.01 DM
C514	87-010-197-080		CAP, CHIP 0.01 DM
C518	87-010-322-080		C-CAP,S 100P-50 CH
C519	87-012-145-080		CAP, CHIP S 270P CH
C520	87-012-157-080		C-CAP,S 330P-50 CH
C521	87-012-154-080		C-CAP,S 150P-50 CH
C522	87-010-371-080		CAP, ELECT 470-6.3V
C523	87-010-197-080		CAP, CHIP 0.01 DM
C524	87-010-197-080		CAP, CHIP 0.01 DM
C525	87-010-197-080		CAP, CHIP 0.01 DM
C526	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C527	87-010-197-080		CAP, CHIP 0.01 DM
C528	87-010-197-080		CAP, CHIP 0.01 DM
C529	87-010-197-080		CAP, CHIP 0.01 DM
C530	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-197-080		CAP, CHIP 0.01 DM
C532	87-010-374-040		CAP,E 47-10
C533	87-010-197-080		CAP, CHIP 0.01 DM
C534	87-010-555-040		CAP,E 100-10 GAS
C535	87-010-197-080		CAP, CHIP 0.01 DM
C536	87-010-078-040		CAP,E 47-6.3 5L
C537	87-010-197-080		CAP, CHIP 0.01 DM
C538	87-010-196-080		CHIP CAPACITOR,0.1-25
C539	87-016-669-080		C-CAP,S 0.1-25 K B
C540	87-010-078-040		CAP,E 47-6.3 5L
C541	87-010-197-080		CAP, CHIP 0.01 DM
C542	87-010-318-080		C-CAP,S 47P-50 CH
C544	87-010-197-080		CAP, CHIP 0.01 DM
C546	87-010-197-080		CAP, CHIP 0.01 DM
C549	87-010-494-040		CAP,E 1-50 GAS
C550	87-010-196-080		CHIP CAPACITOR,0.1-25
C551	87-012-153-080		C-CAP,S 120P-50 CH
C552	87-016-526-080		C-CAP,S 0.47-16 BK
C554	87-010-197-080		CAP, CHIP 0.01 DM
C556	87-010-378-040		CAP,E 10-16
C557	87-010-316-080		C-CAP,S 33P-50 CH
C558	87-010-315-080		C-CAP,S 27P-50 CH
C560	87-010-197-080		CAP, CHIP 0.01 DM
C601	87-010-197-080		CAP, CHIP 0.01 DM
C602	87-010-197-080		CAP, CHIP 0.01 DM
C603	87-010-112-040		CAP,E 100-16
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-197-080		CAP, CHIP 0.01 DM
C606	87-010-197-080		CAP, CHIP 0.01 DM
C607	87-010-313-080		CAP, CHIP 18P
C608	87-010-313-080		CAP, CHIP 18P
C609	87-010-178-080		CHIP CAP 1000P
C610	87-010-178-080		CHIP CAP 1000P
C611	87-010-178-080		CHIP CAP 1000P
C612	87-010-178-080		CHIP CAP 1000P
C613	87-010-403-040		CAP,E 3.3-50 SME
C614	87-010-403-040		CAP,E 3.3-50 SME
C615	87-010-318-080		C-CAP,S 47P-50 CH
C616	87-010-318-080		C-CAP,S 47P-50 CH
CN101	87-A60-424-010		CONN,16P V TOC-B
CN102	87-099-199-010		CONN,6P 6216 H
CN401	87-099-212-010		CONN,5P 6216 V
CN403	87-099-030-010		CONN,13P 6216H
J501	87-009-502-010		JACK,PIN 1P Y EARTH
L101	87-005-196-080		COIL,10UH
L301	87-A50-095-010		COIL,68UH RCR875D
L302	87-005-426-080		COIL,3.3UH K FLR50
L502	87-005-204-080		COIL,47UH
L503	87-005-189-080		COIL 2.7UH
L504	87-005-187-080		COIL,1.8UH
L505	87-005-204-080		COIL,47UH

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L506	87-005-204-080		COIL,47UH
L507	87-005-204-080		COIL,47UH
L508	87-005-817-080		C-COIL, 33UH J FLC32
M401	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
R130	87-022-364-080		C-RES,S 82K-1/10W F
R131	87-022-364-080		C-RES,S 82K-1/10W F
R132	87-022-364-080		C-RES,S 82K-1/10W F
R133	87-022-364-080		C-RES,S 82K-1/10W F
R134	87-022-364-080		C-RES,S 82K-1/10W F
R135	87-022-364-080		C-RES,S 82K-1/10W F
R507	87-A00-408-080		C-RES,S 2K-1/10W D
S201	87-A90-162-010		SW,SL 1-1-3 SSSU
S401	87-036-109-010		PUSH SWITCH
S402	87-036-109-010		PUSH SWITCH
W1	84-ZG1-673-010		F-CABLE,5P 1.25 210MM BLACK N
W2	85-NFT-611-110		FF-CABLE 16P-1.0
W3	84-ZG1-630-010		CABLE FFC 6P-1.25
X201	87-A70-124-080		VIB,CER 8.0MHZ
X501	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
X601	87-030-270-080		VIB,XTAL 16.9344MHZ

LED C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
LED401	87-070-200-080		LED,SLP636C-81-S-T1
LED402	87-017-350-080		LED,SEL1550CM
LED403	87-017-350-080		LED,SEL1550CM
LED404	87-070-200-080		LED,SLP636C-81-S-T1

T-T C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C401	87-018-214-080		CAP TC U 0.1-50F
CON401	86-NFZ-675-010		CONN,5P H 6216-11H
PS401	87-026-573-010		IC,GP1S53V

DRIVE C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN3	87-009-349-010		CONN,6P H WHT PH
M20	87-045-358-010		MOT,RF-310TA 43
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW-17310MVPO

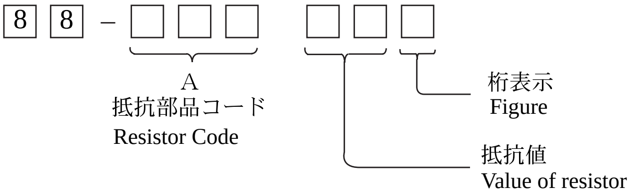
CD MOTOR C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN4	87-099-210-010		CONN,5P H BLK 6216
M1	87-045-305-010		MOT,RF-500TB
SW1	87-035-110-010		SW,MICRO SPPB62
SW2	87-035-110-010		SW,MICRO SPPB62

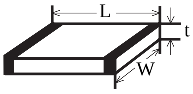
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

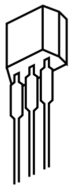
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding


8 8 – □□□ □□□
A
抵抗部品コード
Resistor Code
桁表示
Figure
抵抗値
Value of resistor

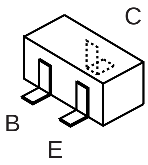
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm)				抵抗コード　: A Resistor Code : A
				外形 / Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

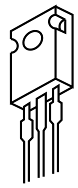
TRANSISTOR ILLUSTRATION



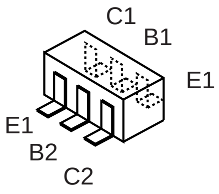
2SA933S



2SA1162
2SC2712
DTA123JK
DTA124XK
DTC124XK

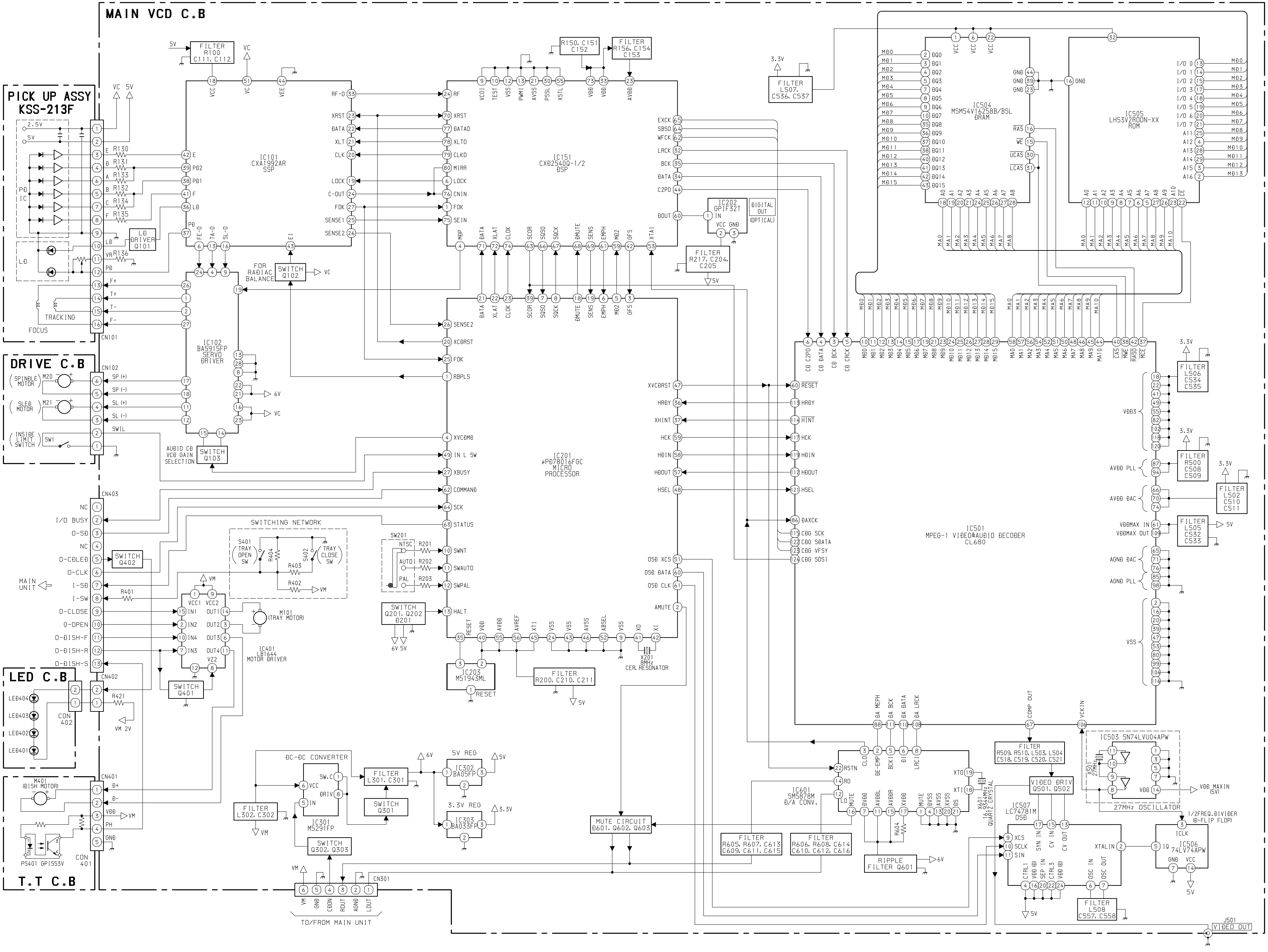


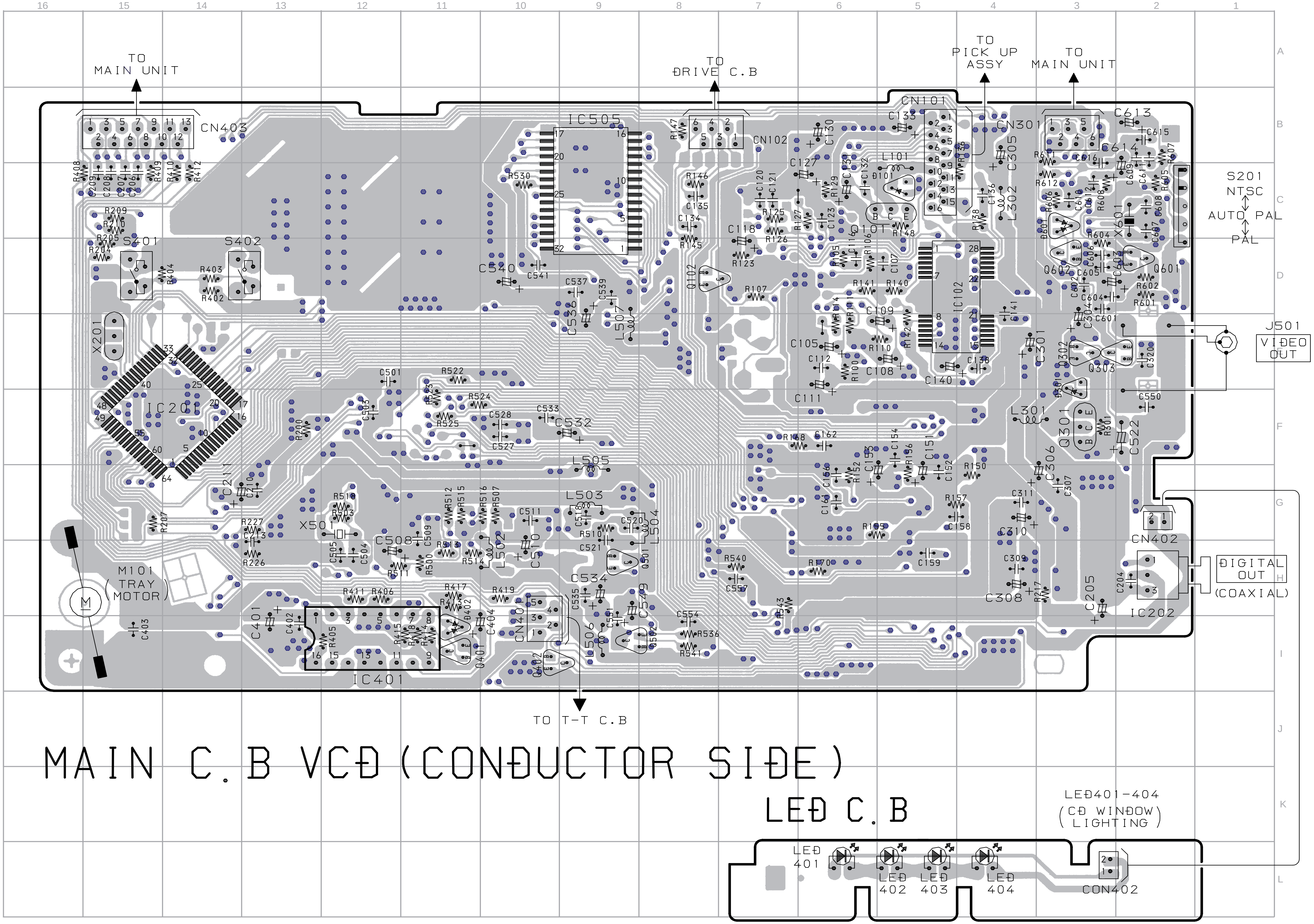
2SA1357


C1
B1
E1
E1
B2
C2

HN1C03F

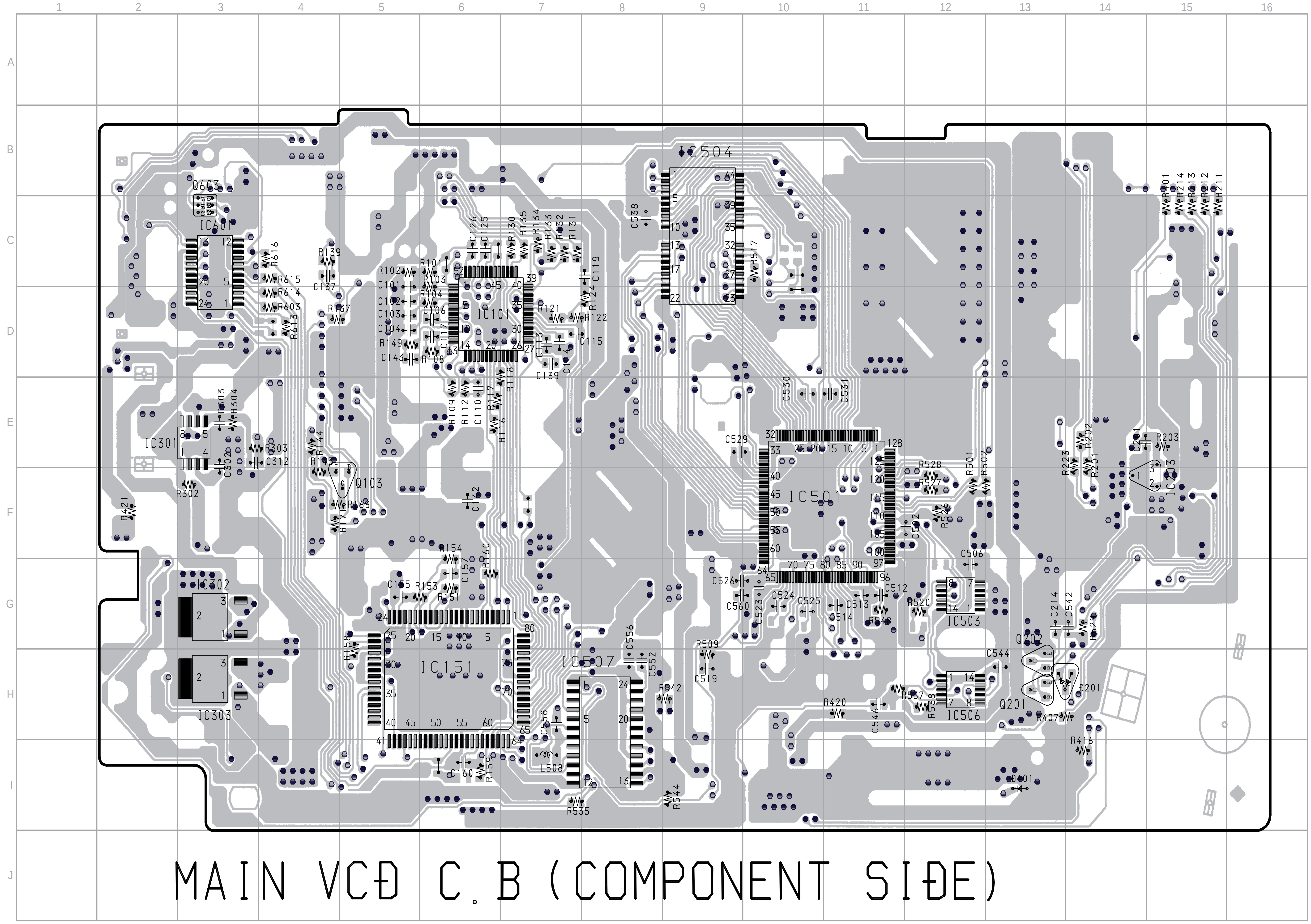
BLOCK DIAGRAM


MAIN VCD C.B
PICK UP ASSY
KSS-213F
DRIVE C.B
LED C.B
T.T C.B
CN101
CN102
CN403
CN402
CN401
CN301
FILTER R100 C111, C112
R150, C151 C152
FILTER R156, C154 C153
IC101 CXA1992AR SSP
IC151 CXD2540Q-1/2 DSP
IC102 BA5915FP SERVO DRIVER
LD DRIVER Q101
SWITCH Q102
FOR RADIAC BALANCE
SWITCH Q103
AUDIO CD VCD GAIN SELECTION
IC202 GP1F32T
DIGITAL OUT (OPTICAL)
FILTER R217, C204, C205
IC201 μPD78016FGC MICRO PROCESSOR
IC203 M51943ML
FILTER R200, C210, C211
X201 8MHz CER. RESONATOR
SWITCHING NETWORK
S401 TRAY OPEN SW
S402 TRAY CLOSE SW
SW201 NTSC AUTO PAL
SWITCH Q201, Q202 D201
SWITCH Q402
SWITCH Q401
IC401 LB1644 MOTOR DRIVER
M101 (TRAY MOTOR)
M20 (SPINDLE MOTOR)
M21 (SLED MOTOR)
(INSIDE LIMIT SWITCH) SW1
M401 (DISH MOTOR)
PS401 GP1S53V
LED401 LED402 LED403 LED404
CON 402
CON 401
MAIN UNIT
TRACKING
FOCUS
DC-DC CONVERTER
IC301 M5291FP
FILTER L301, C301
SWITCH Q301
FILTER L302, C302
SWITCH Q302, Q303
5V REG
IC302 BA05FP
3.3V REG
IC303 BA033FP
MUTE CIRCUIT D601, Q602, Q603
TO/FROM MAIN UNIT
FILTER L507, C536, C537
IC504 MSM54V16258B/BSL DRAM
IC505 LH53V2R00N-XX ROM
IC501 MPEG-1 VIDEO&AUDIO DECODER CL680
FILTER L506 C534 C535
FILTER R500 C508 C509
FILTER L502 C510 C511
FILTER L505 C532 C533
VDD3
AVDD PLL
AVDD DAC
AGND DAC
AGND PLL
VSS
IC601 SM5878M D/A CONV.
X601 16.9344MHz QUARTZ CRYSTAL
FILTER R605, R607, C613 C609, C611, C615
FILTER R606, R608, C614 C610, C612, C616
RIPPLE FILTER Q601
FILTER R509, R510, L503, L504 C518, C519, C520, C521
VIDEO DRIV Q501, Q502
IC507 LC74781M OSD
FILTER L508 C557, C558
IC503 SN74LVU04APW
X501 27MHz
27MHz OSCILLATOR
IC506 74LV74APW
1/2FREQ.DIVIDER (D-FLIP FLOP)
J501 VIDEO OUT


TO MAIN UNIT
CN403
IC505
TO DRIVE C.B
CN102
CN101
TO PICK UP ASSY
TO MAIN UNIT
CN301
S201
NTSC
AUTO PAL
PAL
J501
VIDEO OUT
IC201
IC102
X201
S401
S402
M101 (TRAY MOTOR)
IC401
CN401
CN402
IC202
DIGITAL OUT (COAXIAL)
TO T-T C.B
LED401-404 (CD WINDOW LIGHTING)
LED 401
LED 402
LED 403
LED 404
CON402

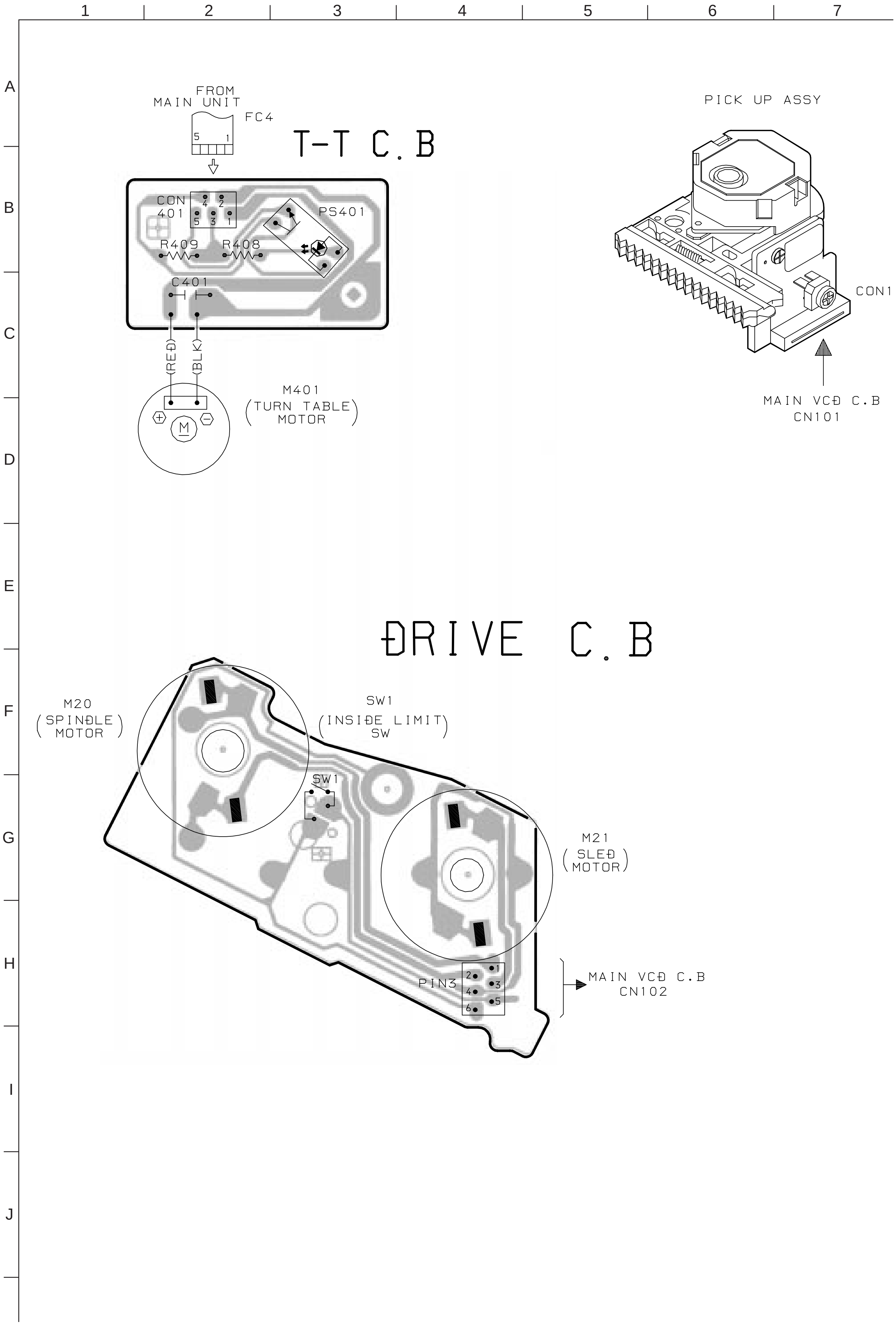
MAIN C.B VCD (CONDUCTOR SIDE)

LED C.B

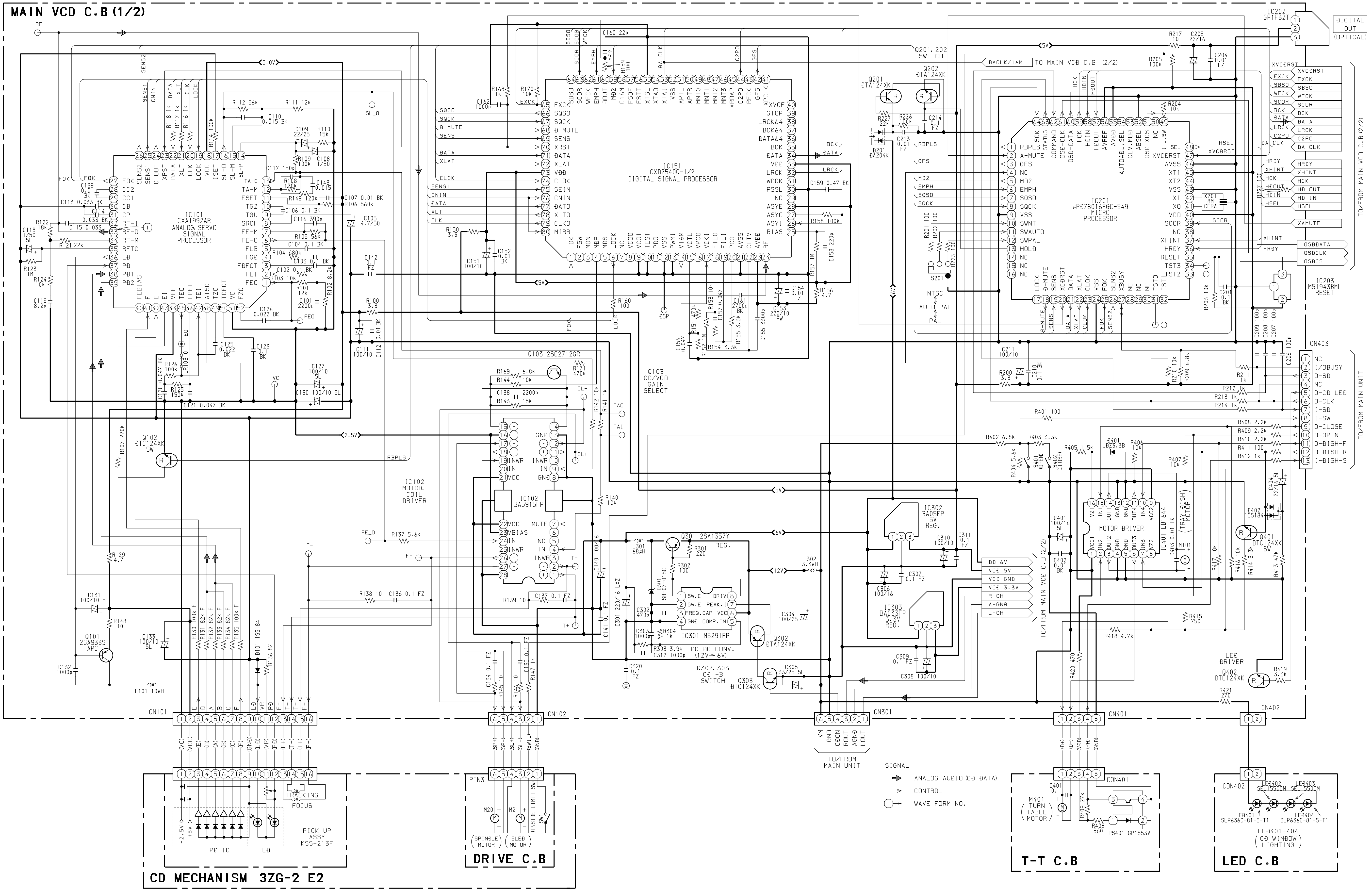

MAIN VCD C.B (COMPONENT SIDE)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
IC504
IC601
Q603
IC101
IC301
Q103
IC501
IC302
IC303
IC151
IC507
IC503
IC506
Q202
Q201
Q203
D201
D601
L508
R139
C137
R137
R101
R102
R103
R104
C101
C102
C103
C104
C106
C117
R149
C143
R108
C126
C125
R130
R135
R134
R133
R632
R131
C119
R124
R121
R122
C113
C115
C114
C139
R109
R112
C110
R117
R116
R118
C538
R517
C530
C531
C529
R528
R527
R501
R502
R529
C532
C506
C526
C560
C523
C524
C525
C513
C514
C512
R520
R548
R509
C519
R542
R420
C546
R537
R538
C544
C214
C542
R529
R407
R416
R223
R202
R201
C201
R203
R201
R214
R213
R212
R211
R616
R615
R614
R603
R613
C303
R304
R303
C312
C302
R302
R421
R144
R143
R163
R171
C142
R154
C157
R160
C155
R153
R151
R158
C556
C552
C558
C160
R159
R535
R544

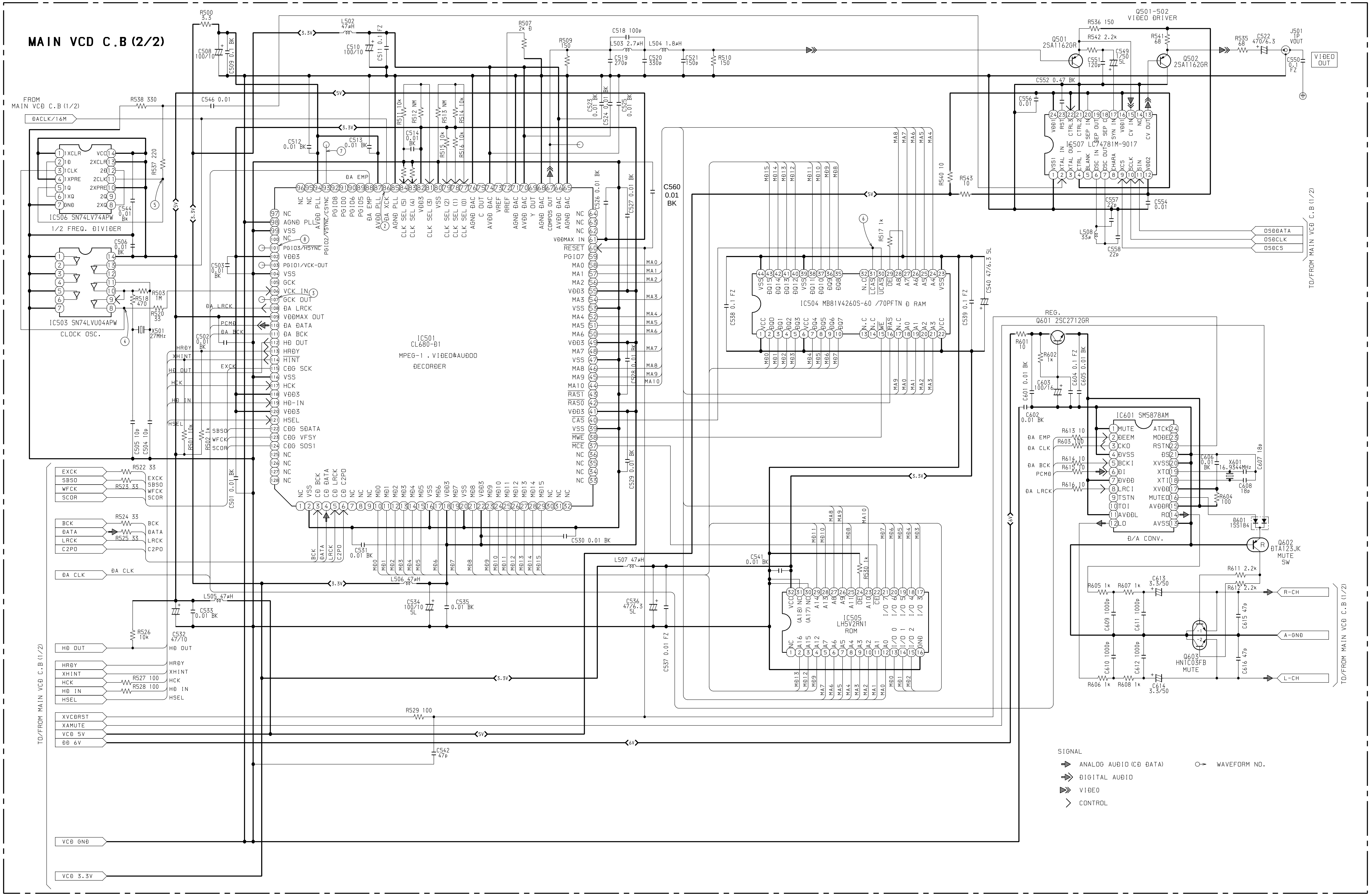
WIRING-3


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
FROM
MAIN UNIT
FC4
5
1
T-T C.B
CON
401
4 2
5 3 1
PS401
R409
R408
C401
(RED)
(BLK)
M401
(TURN TABLE
MOTOR)
M
PICK UP ASSY
CON1
MAIN VCD C.B
CN101
DRIVE C.B
M20
(SPINDLE
MOTOR)
SW1
(INSIDE LIMIT
SW)
SW1
M21
(SLED
MOTOR)
PIN3
1
2
3
4
5
6
MAIN VCD C.B
CN102

SCHEMATIC DIAGRAM-1


MAIN VCD C.B (1/2)
IC101
CXA1992AR
ANALOG SERVO
SIGNAL
PROCESSOR
IC151
CXD2540Q-1/2
DIGITAL SIGNAL PROCESSOR
IC201
μPD78016FGC-549
MICRO
PROCESSOR
IC202
GP1F32T
DIGITAL
OUT
(OPTICAL)
IC203
M51943BML
RESET
IC102
BA5915FP
IC102
MOTOR
COIL
DRIVER
Q103 2SC2712GR
Q103
CD/VCD
GAIN
SELECT
Q101
2SA933S
APC
Q102
DTC124XK
SW
Q201.202
SWITCH
Q201
DTA124XK
Q202
DTA124XK
IC301 M5291FP
DC-DC CONV.
(12V→6V)
Q301 2SA1357Y
REG.
Q302.303
CD +B
SWITCH
Q302
DTA124XK
Q303
DTC124XK
IC302
BA05FP
5V
REG.
IC303
BA033FP
3.3V
REG.
IC401 LB1644
MOTOR DRIVER
(TRAY DISH)
MOTOR
Q401
DTC124XK
SW
LED
DRIVER
Q402
DTC124XK
TO MAIN VCD C.B (2/2)
TO/FROM MAIN VCD C.B (2/2)
TO/FROM MAIN UNIT
TO/FROM
MAIN UNIT
CN101
CN102
CN301
CN401
CN402
CN403
NTSC
AUTO PAL
PAL
S201
SIGNAL
ANALOG AUDIO (CD DATA)
CONTROL
WAVE FORM NO.
TRACKING
FOCUS
PICK UP
ASSY
KSS-213F
PD IC
LD
CD MECHANISM 3ZG-2 E2
PIN3
M20
M21
(SPINDLE)
MOTOR
(SLED)
MOTOR
(INSIDE LIMIT SW)
DRIVE C.B
CON401
M401
TURN
TABLE
MOTOR
PS401 GP1S53V
T-T C.B
CON402
LED402 SEL1550CM
LED403 SEL1550CM
LED401 SLP636C-81-5-T1
LED404 SLP636C-81-5-T1
LED401-404
(CD WINDOW
LIGHTING)
LED C.B

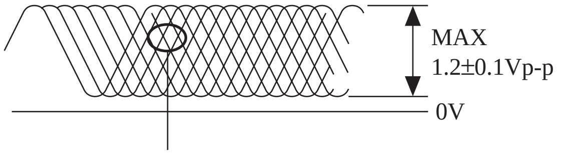
SCHEMATIC DIAGRAM-2


MAIN VCD C.B (2/2)
FROM MAIN VCD C.B (1/2)
DACLK/16M
IC506 SN74LV74APW
1/2 FREQ. DIVIDER
IC503 SN74LVU04APW
CLOCK OSC.
X501 27MHz
IC501 CL680-01
MPEG-1 . VIDEO&AUDIO DECORDER
IC504 MB81V4260S-60 /70PFTN D RAM
IC505 LH5V2RN1 ROM
IC507 LC74781M-9017
Q501-502 VIDEO DRIVER
Q501 2SA1162GR
Q502 2SA1162GR
J501 1P VOUT
VIDEO OUT
C560 0.01 BK
REG. Q601 2SC2712GR
IC601 SM5878AM
D/A CONV.
X601 16.9344MHz
D601 1SS184
Q602 DTA123JK MUTE SW
Q603 HN1C03FB MUTE
R-CH
A-GND
L-CH
OSDDATA
OSDCLK
OSDCS
TO/FROM MAIN VCD C.B (1/2)
EXCK
SBSO
WFCK
SCOR
BCK
DATA
LRCK
C2PO
DA CLK
HD OUT
HRDY
XHINT
HCK
HD IN
HSEL
XVCDRST
XAMUTE
VCD 5V
DD 6V
VCD GND
VCD 3.3V
SIGNAL
ANALOG AUDIO (CD DATA)
DIGITAL AUDIO
VIDEO
CONTROL
WAVEFORM NO.

WAVE FORM

①

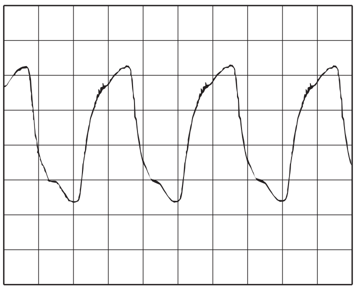
IC101 Pin ㉝ (RF-O)
VOLT/DIV: 200mV
TIME/DIV: 0.5µS



EYE PATTERN
must be CLEAR and MAX

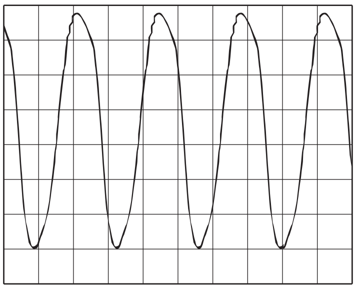
②

IC501 Pin ㊱ DA XCK
16.93MHz
VOLT/DIV: 1V
TIME/DIV: 20nS



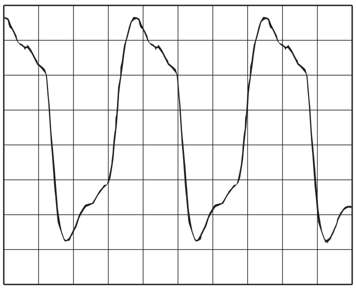
③

IC501 Pin (107) GCK OUT
42.3MHz
VOLT/DIV: 1V
TIME/DIV: 10nS



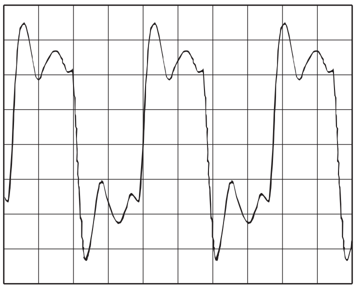
④

IC503 Pin ⑧ 33 VCK
27MHz±1.35kHz
VOLT/DIV: 1V
TIME/DIV: 10nS



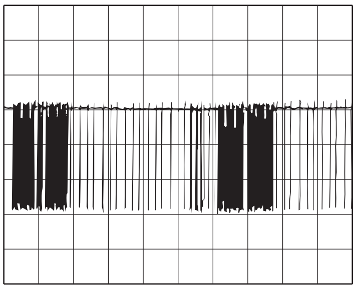
⑤

IC506 Pin ⑪ OSD CLK
13.5MHz±675Hz
VOLT/DIV: 1V
TIME/DIV: 20nS



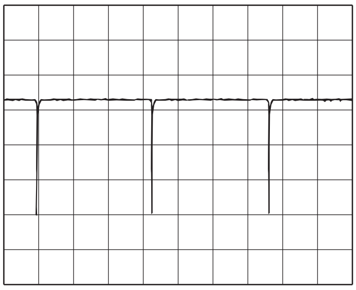
⑥

IC504 Pin ㉚ $\overline{\text{UCAS}}$
(Pin ㉛ $\overline{\text{LCAS}}$)
VOLT/DIV: 1V
TIME/DIV: 2µS



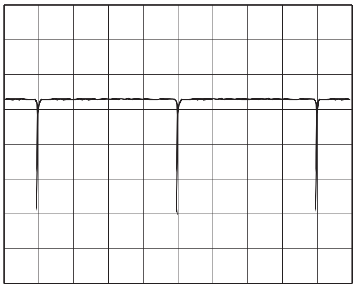
⑦

IC501 Pin (93) $\overline{\text{VSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 5mS



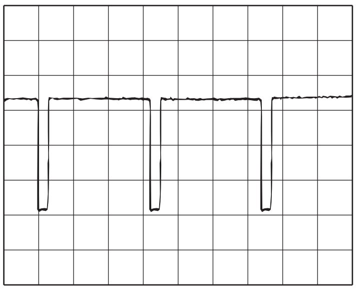
⑧

IC501 Pin (93) $\overline{\text{VSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 5mS

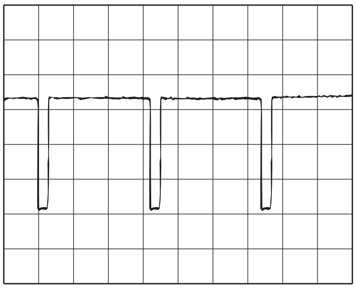


⑧

IC501 Pin (101) $\overline{\text{HSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 20µS



IC501 Pin (101) $\overline{\text{HSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 20µS



IC DESCRIPTION

IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. fLOCK=8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two’s complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two’s complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level metter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136µ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the ±28F jitter margin.

IC, CL680

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$	O	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC74781M

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X’tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X’tal generator mode is selected by this selector terminal. L: X’tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{\text{RST}}$ terminal = L), the X’tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{\text{RST}}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{\text{CS}}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

IC, µPD78016FGC

Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE (H=MUTE ON).
3	GFS	I	GFS.
4	XVCDMD	I	AUDIO/VIDEO CD MODE (L=VCD=SPINDLE GAIN UP).
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE (L=NTSC).
11	SWAUTO	I	SW TV OUT MODE (L=NTSC/PAL AUTO).
12	SWPAL	I	SW TV OUT MODE (L=PAL).
13	EMERG	I	POWER EMERGENCY STOP (L*3sec=STOP).
14	NC	—	Nou used.
15	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
16	NC	—	Nou used.
17	LOCK	O	GFS (FRAME SYNC) LOCK (NO USE=H).
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	NC	—	Nou used.
29	NC	—	
30	NC	—	
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	HINT FROM CL680.
38	NC	—	Nou used.
39	SCOR	I	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

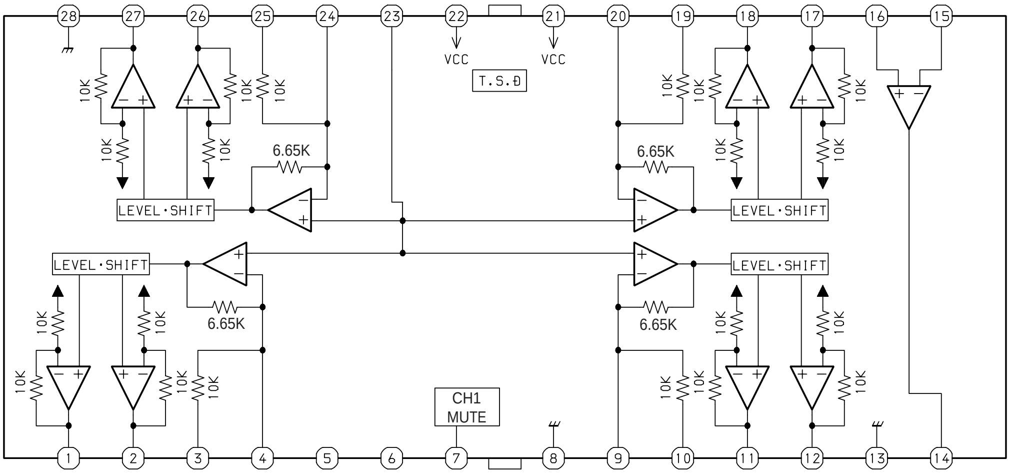
Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Nou used.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW.
50	NC	—	Nou used.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT (L=CXA1992A).
53	CLVSEL	I	CLV MODE SELECT (H=CLV-N).
54	AADSEL	I	AUTO ADJUST SELECT (H=AUTO ON).
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN TO CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST.
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

IC, SM5878M

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

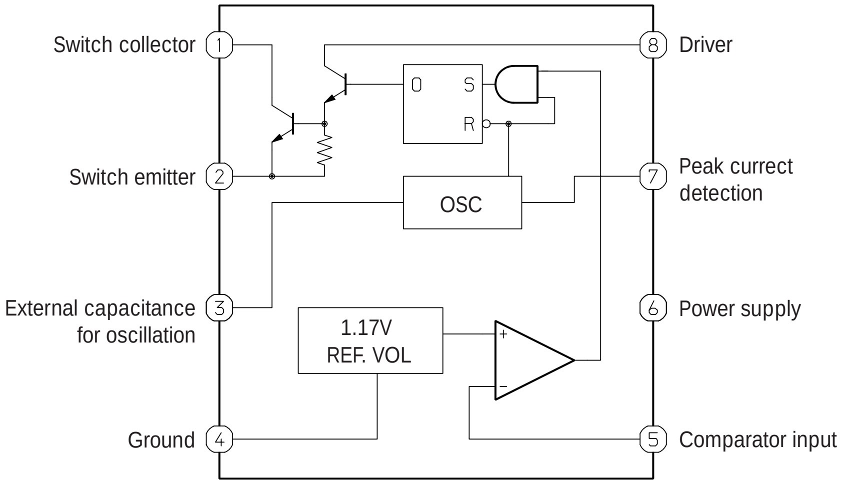
IC BLOCK DIAGRAM

IC, BA5915FP


28
27
26
25
24
23
22
21
20
19
18
17
16
15
VCC
VCC
T.S.D
10K
6.65K
LEVEL·SHIFT
CH1
MUTE
1
2
3
4
5
6
7
8
9
10
11
12
13
14

T.S.D: Thermal shut-down
Resistors are in units of Ω.

IC, M5291FP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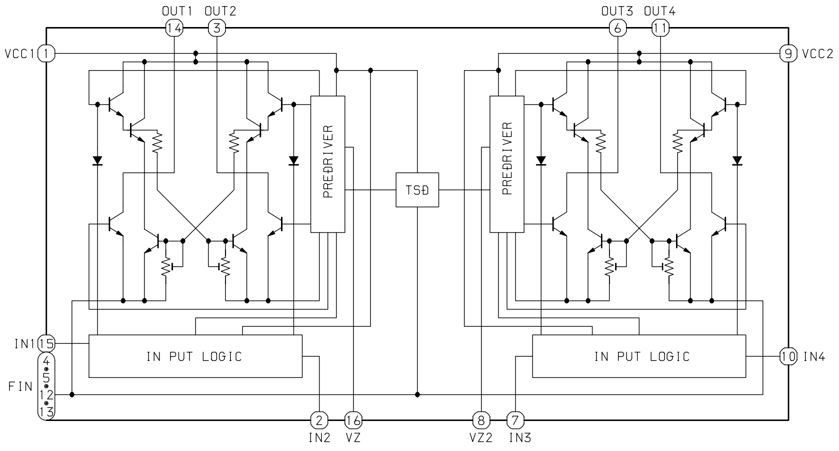
1
Switch emitter
2
External capacitance
for oscillation
3
Ground
4
8
Driver
7
Peak currect
detection
6
Power supply
5
Comparator input
O
S
R
OSC
1.17V
REF. VOL
+
−

IC, LB1644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OUT2
14
3
OUT3
OUT4
6
11
VCC1
1
9
VCC2
PREDRIVER
TSD
PREDRIVER
IN1
15
IN PUT LOGIC
IN PUT LOGIC
10
IN4
FIN
4
5
12
13
2
16
IN2
VZ
8
7
VZ2
IN3

TRUH TABLE

IN1	IN2	OUT1	OUT2	IN3	IN4	OUT3	OUT4
0	0	L	L	0	0	L	L
1	0	H	L	1	0	H	L
0	1	L	H	0	1	L	H
1	1	L	L	1	1	L	L

INPUT			OUTPUT				MODE	
IN1	IN2.3	IN4	OUT1	OUT2	OUT3	OUT4	M1	M2
0	0	0	L	L	L	L	BRAKE	BRAKE
1	0	0	H	L	L	L	FF/REW	BRAKE
0	1	1	L	H	L	L	REW/FF	BRAKE
1	1	0	L	L	H	L	BRAKE	FF/REW
0	0	1	L	L	L	H	BRAKE	REW/FF
1	1	1	L	L	L	L	BRAKE	BRAKE

TEST MODE

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

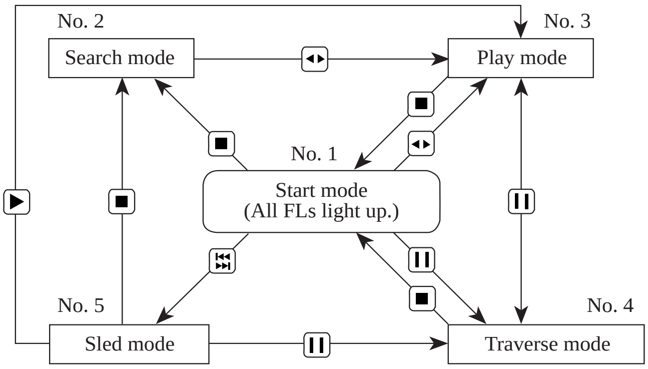
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Press the function button. (except CD function button)
   - Press the power switch button.
   - Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	TEST□□ □□ □□ Flashes repeatdly	• Test mode is activated. • CD block power is ON.	• Test mode
Search mode No.2	■ key	CD--	• Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶key	CD11	• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check FOK/FZC
Traverse mode No.4	❚❚ key	CD11	• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮or ⏭keys when the machine is in the ❚❚ status is active. If they are pressed, playback will not be possible after the ❚❚ status has been canceled. If the ⏮or ⏭keys are pressed in the ❚❚status, press the ■key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮or ⏭keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



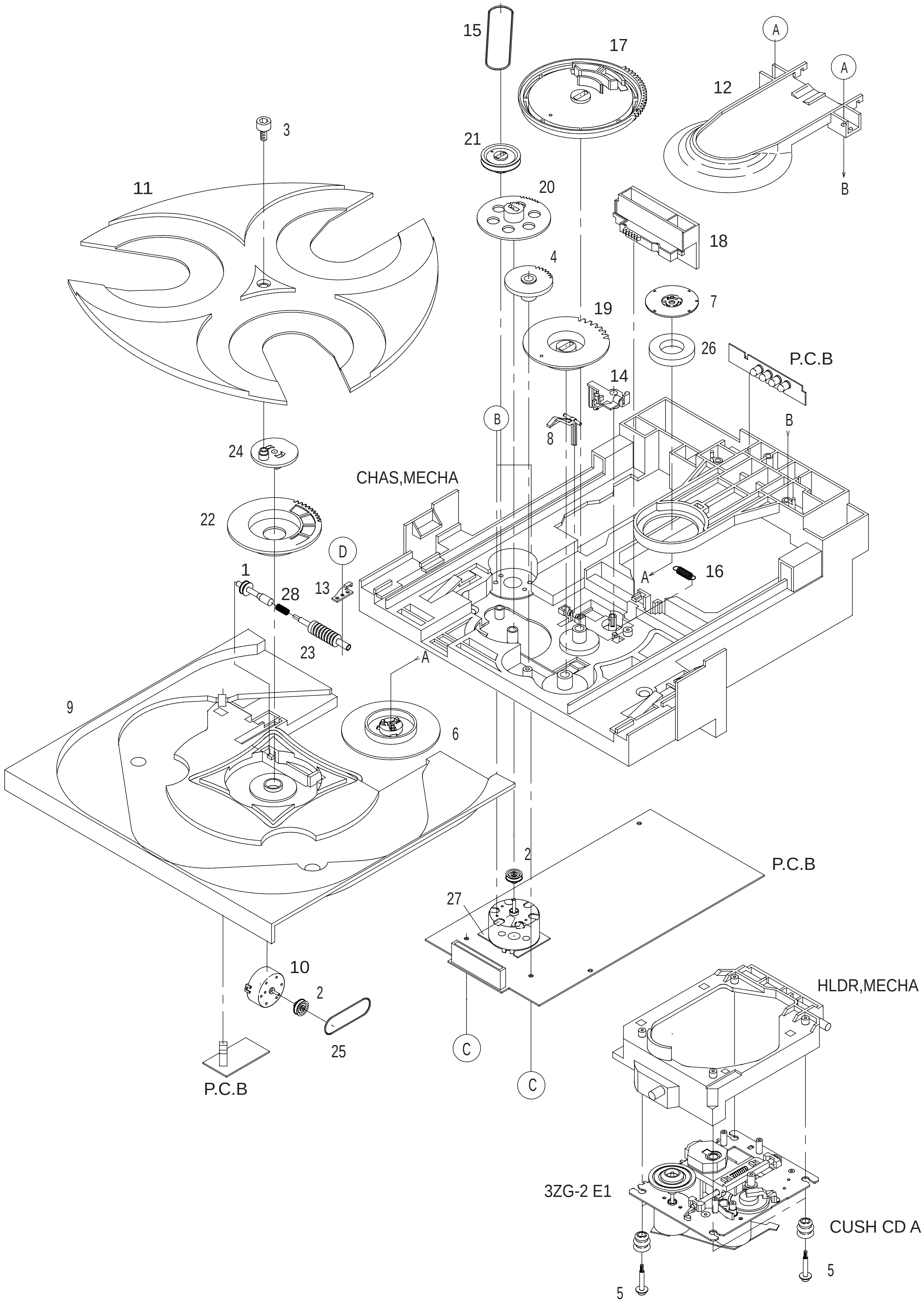
If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

5. How to check the Automatic Adjustment Values
   The automatic adjustment values can be checked by pressing the square (■) button.
   FL display (displayed in hexadecimal values)

```
** ** **
│  │  └──────────► Tracking balance (00-0F)
│  └─────────────► Tracking gain (00-0C)
└────────────────► Focus bias (10-2F)
```

Note) The reference value is “20 08 08”.

MECHANICAL EXPLODED VIEW 1/1



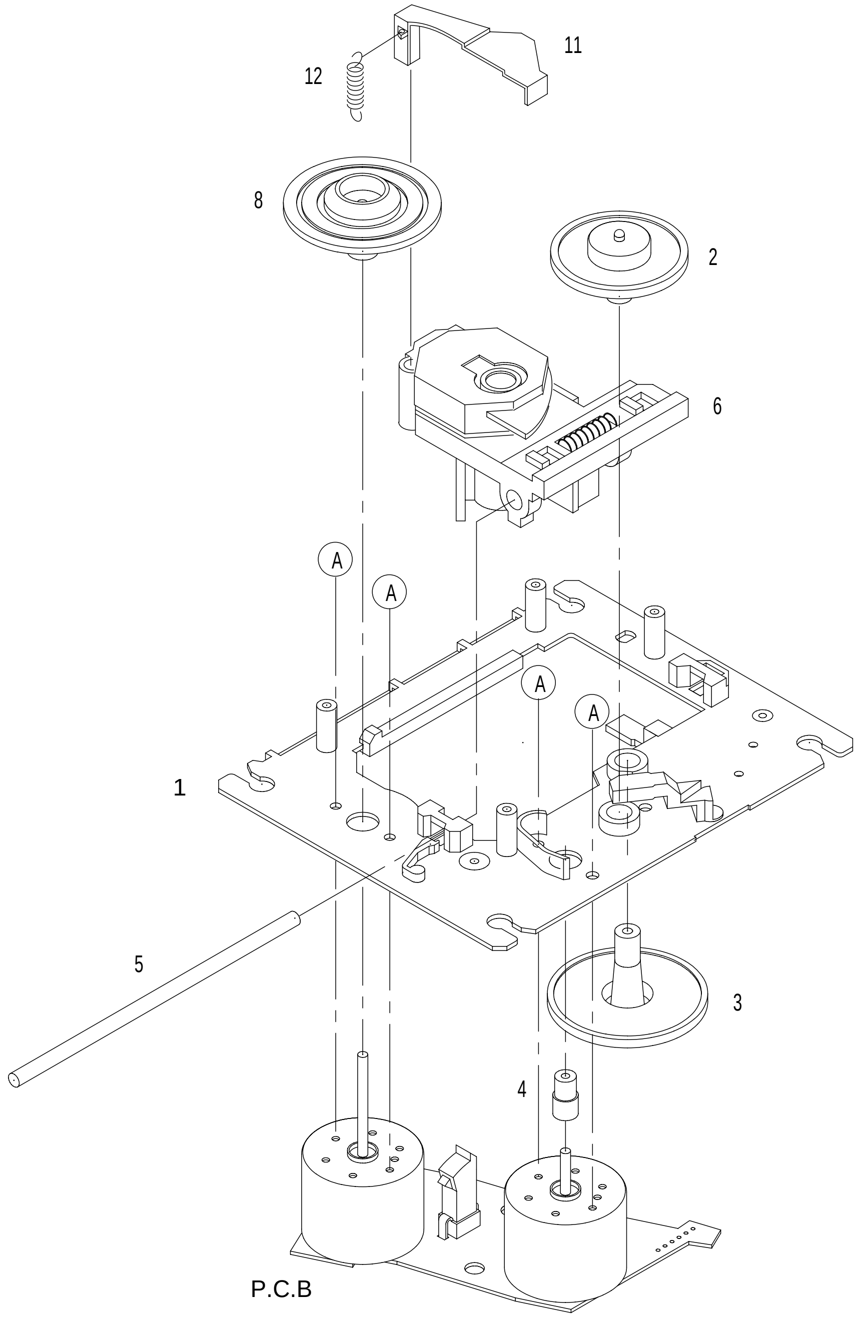
15
17
A
A
12
3
21
B
11
20
18
4
7
19
26
P.C.B
14
B
8
B
24
CHAS,MECHA
22
D
1
13
A
16
28
23
A
9
6
2
P.C.B
27
10
2
HLDR,MECHA
25
C
P.C.B
C
3ZG-2 E1
CUSH CD A
5
5

MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY,WORM N
2	84-ZG1-267-010		PULLEY,LOAD MO 8
3	81-ZG1-239-010		S-SCREW,TT
4	81-ZG1-291-110		GEAR,TRAY RELAY NO3
5	81-ZG1-271-010		S-SCREW MECH REAR
6	81-ZG1-277-310		HLDR,MAGNET N
7	81-ZG1-255-110		PLATE,MAGNET MK2
8	83-ZG3-213-010		LVR,SW
9	84-ZG1-003-310		TRAY,NO2-B
10	87-045-364-010		MOTOR(BCH3B14)
11	84-ZG1-005-210		TURNTABLE,NO1(*)
12	84-ZG1-011-010		REFLECTOR,CD
13	84-ZG1-259-010		SPR-P,WORM
14	84-ZG1-208-210		LEVER,CAM
15	84-ZG1-209-010		BELT,SQ1.8-117.7
16	84-ZG1-211-010		SPR-E CAM S
17	84-ZG1-215-410		GEAR,MAIN CAM BLU
18	84-ZG1-216-310		SLIDE,MECHA CAM YEL
19	84-ZG1-205-110		GEAR,TRAY
20	84-ZG1-206-110		GEAR,RELAY
21	84-ZG1-207-010		PULLEY,RELAY
22	84-ZG1-221-010		GEAR,MAIN TT
23	84-ZG1-238-010		GEAR,WORM N
24	84-ZG1-224-010		LEVER,TT
25	84-ZG1-225-010		BELT,SQ1.0-63.3
26	83-ZG3-602-010		RING,MAG
27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
28	84-ZG1-248-010		SPR-C,WORM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-251-070-410		U+2.6-3
C	87-342-036-210		UT2+2-8
D	87-067-981-010		BVT2+3-6 BLK

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR,A3
3	83-ZG2-205-210		GEAR,B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT,SLIDE 3
6	87-A90-836-010		PICKUP,KSS-213F
8	83-ZG2-233-010		TURN TABLE,A5
11	83-ZG2-245-110		LEVER,SHUTTER
12	83-ZG2-250-010		SPR-E,SHT 2
A	87-261-032-210		SCREW V+2-3

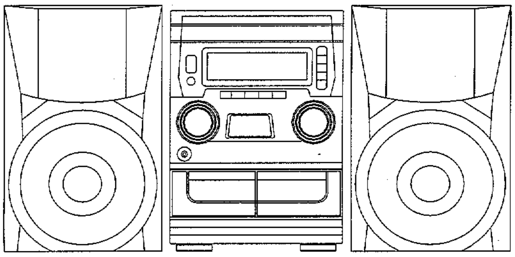
USE MODEL LIST

- CX-NAK572
- CX-NK270
- CX-NK290
- CX-NK370
- CX-NK570
- CX-NK765
- CX-NK770
- CX-NK970
- DX-SNKH100

aiwa

aiwa SERVICE

NSX-S555
NSX-S556



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 6ZM-3 PR2NM/2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG-1 Z3RDSHM
- TYPE: HR,EZ,K,V

REVISION PUBLISHING

SYSTEM	CD – CASSIVER	SPEAKER
NSX-S555	CX-NS555	SX-WNS555
NSX-S556	CX-NS556	SX-WNS556

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” (S/M Code No. 09-992-401-7T2).
- If requiring information about the CD mechanism,see Service Manual of 4ZG-1 (S/M Code No. 09-983-249-3S2).

S/M Code No. 09–996–401–7R2

SERVICE MANUAL

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SPECIFICATIONS

Main unit CX-NS555<HR,EZ,K,V>,CX-NS556<EZ>

<FM Tuner section>	
Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminal	75 ohms (unbalanced)
<FM Tuner section>	<V>
Tuning range	FM1 (OIRT): 65.0 MHz to 74.0 MHz (10 kHz step) FM2 (CCIR): 87.5 MHz to 108 MHz (50 kHz step)
Usable sensitivity (IHF)	FM1 : 15.3 dBf FM2 : 12.8 dBf
Antenna terminal	75 ohms (unbalanced)
<MW Tuner section>	
Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop Antenna
<SW Tuner section>	<HR>
Tuning range	5.9 MHz to 17.9 MHz
Antenna	Wire Antenna
<LW Tuner section>	<555/556EZ,K>
Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 uV/m
Antenna	Loop Antenna
<Amplifier section>	
Mid-high frequency amplifier	
Power output	Rated 10W +10W (8ohms,T.H.D. 1%,1kHz) Reference:12W +12W (8ohms, T.H.D. 10%,1kHz) DIN MUSIC POWER : 28W+28W <555/556EZ,K>
Total harmonic distortion	0.06%(8W,1kHz,8ohms,DIN AUDIO)
Low frequency amplifier	
Power output	Rated 40W + 40W (4ohms,T.H.D. 1%,135Hz) Reference:50W + 50W (4ohms, T.H.D. 10%,135Hz) Rated 30W + 30W (4ohms,T.H.D. 1%,135Hz)<555/556EZ,K,V> Reference:37W + 37W (4ohms, T.H.D. 10%,135Hz)<555/556EZ,K,V> DIN MUSIC POWER : 63W+63W<555/556EZ,K>
Total harmonic distortion	0.06%(32W,135Hz,4ohms,DIN AUDIO)
Inputs	VIDEO / AUX: 300mV (adjustable) Mic : 1.0mV (10k ohms)
Outputs	SPEAKER HIGH FREQ : 8ohms or more SPEAKER LOW FREQ : 4ohms or more SURROUND SPEAKERS : 8ohms or more PHONES : 32ohms
<Cassette deck section>	
Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/playback/ erase head x 1
<Compact disc player section>	
Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1kHz,0dB)
Harmonic distortion	0.05% (1kHz,0dB)
<General>	
Power requirements	120V/220 - 230V/240V AC switchable,50/60Hz<HR> 230V AC,50Hz<555/556EZ,K,V>
Power consumption	135 W<HR> 140 W<555/556EZ,K,V>
Dimensions of main unit (W x H x D)	260 x 330 x 355 mm
Weight of main unit	8.5 kg<HR> 8.2 kg<555/556EZ,V> 8.0 kg<K>

Speaker system SX-WNS555/SX-WNS556<556EZ>

Cabinet type	2 way, subwoofer (magnetic shielded type)
Speakers	Subwoofer : 160 mm cone type Full range : 100 mm cone type
Impedance	4 ohms/8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 275 mm
Weight	4.8 kg

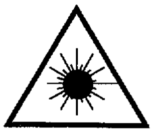
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

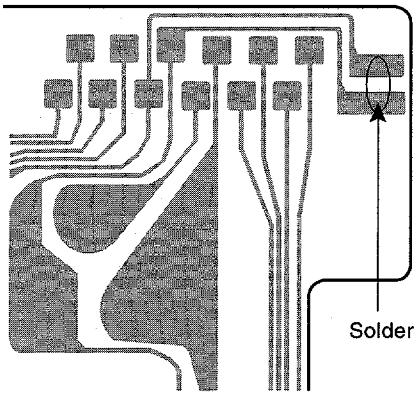
Precaution to replace Optical block

(KSS – 213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

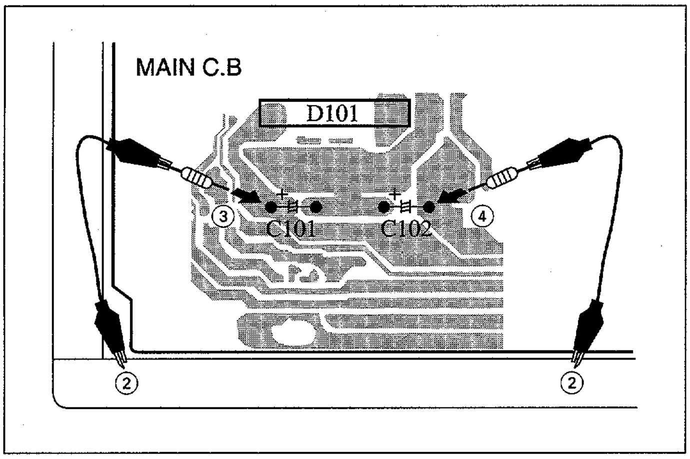


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

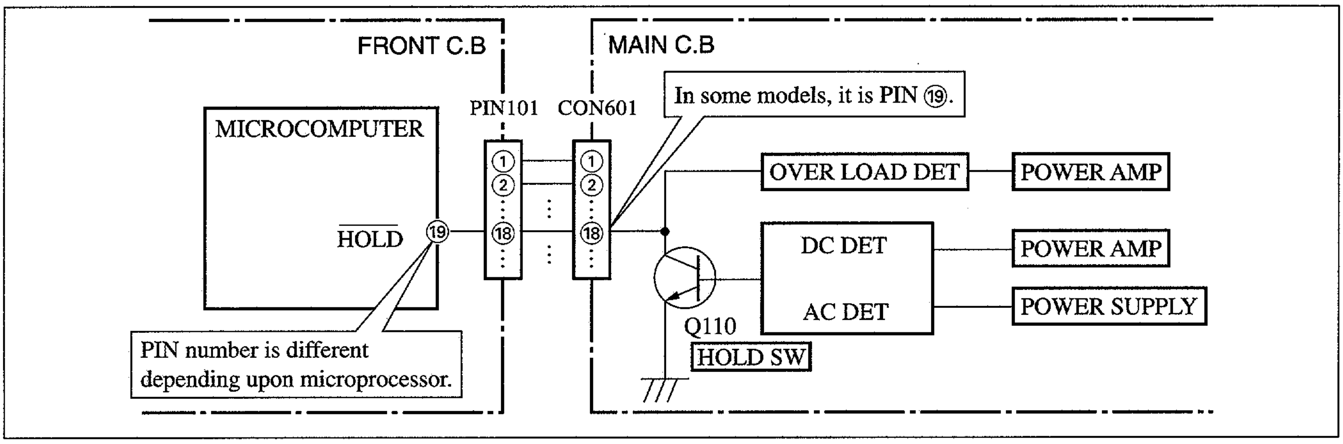
Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.



In some models, it is PIN ⑲.

PIN number is different depending upon microprocessor.

Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

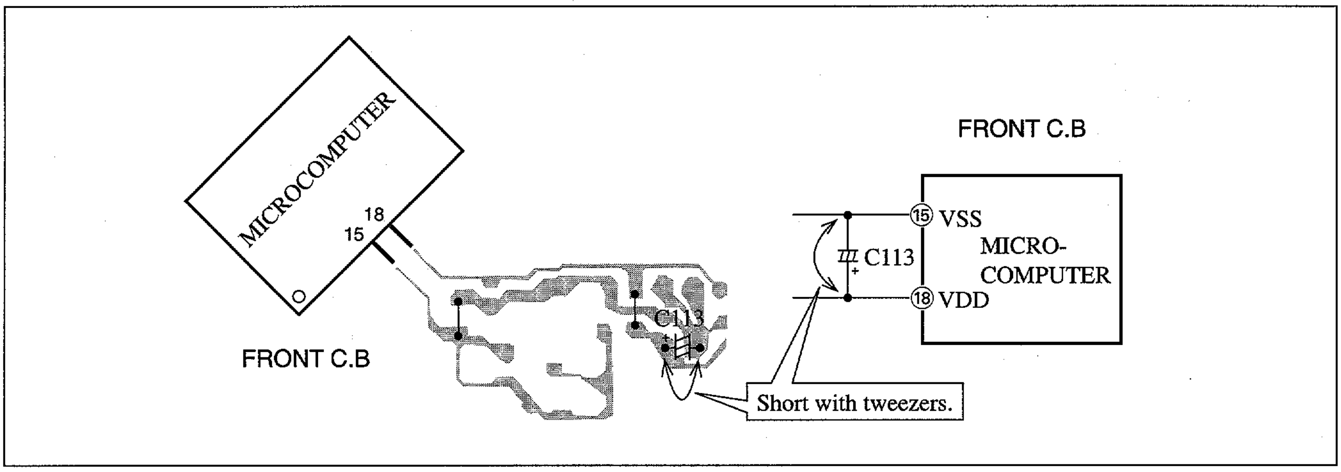


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.

③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-NF8-675-010		C-IC,UPD780228GF-037-3BA
	87-NF8-614-010		IC,SPS-442-1-W
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-023-040		C-IC,BA3835F
	87-A21-031-040		C-IC,BU4551BF
	87-A21-021-040		C-IC,BU2099FV
	87-A21-011-040		C-IC,M62445FP-600D
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-A20-440-040		C-IC,BU1920FS<556EZ>
	87-A21-202-040		C-IC,M62445AFP<V>
	87-020-454-010		IC,DN6851
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-196-080		TR,2SC4115SRS
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-107-070		C-TR,CMBT5401
	87-A30-257-080		C-TR,2SD1306E
	87-A30-190-080		TR,CC5551
	87-A30-108-010		TR,2SB1626
	87-A30-106-070		C-TR,CMBT5551
	87-A30-087-080		C-FET,2SK2158<HR>
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-119-040		C-TR,2SC3906K R
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-240-080		TR,CSA1585BC
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-097-010		TR,FN1016<HR>
	87-A30-098-010		TR,FP1016<HR>
	87-A30-105-080		C-TR,RT1P 441C
	87-026-245-080		TR,DTC114ES
	87-A30-198-080		TR,KTC3199GR
	87-A30-214-010		TR,2SB1344
	87-A30-215-010		TR,2SD2025
	87-A30-086-070		C-TR,CSD1306E<V>
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-654-060		DIODE,GBU6J
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-383-080		ZENER,MTZJ30A
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-488-080		DIODE,1SS244
	87-A40-509-080		ZENER,MTZJ6.8C
	87-017-932-080		ZENER,MTJ6.2B
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-548-090		DIODE,D3SBA20
	87-017-447-010		DIODE,GBU4DL-6419<HR>
MAIN C.B			
C1	87-012-369-080		C-CAP,S 0.047-50F
C2	87-012-369-080		C-CAP,S 0.047-50F
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C5	87-012-368-080		C-CAP,S 0.1-50 F
C6	87-012-368-080		C-CAP,S 0.1-50 F
C9	87-A10-520-090		CAP,E 3300-35 M SMG<HR>
C9	87-010-917-090		CAP,E 3300-50 M SMG<EXCEPT HR>
C10	87-A10-520-090		CAP,E 3300-35 M SMG<HR>
C10	87-010-917-090		CAP,E 3300-50 M SMG<EXCEPT HR>
C21	87-010-385-080		CAP, ELECT 220-25V<HR>
C21	87-010-408-080		CAP, ELECT 47-50V<EXCEPT HR>
C22	87-010-385-080		CAP, ELECT 220-25V<HR>
C22	87-010-408-080		CAP, ELECT 47-50V<EXCEPT HR>
C23	87-010-247-080		CAP, ELECT 100-50V<HR>
C23	87-010-408-080		CAP, ELECT 47-50V<EXCEPT HR>
C24	87-010-247-080		CAP, ELECT 100-50V<HR>
C24	87-010-408-080		CAP, ELECT 47-50V<EXCEPT HR>
C25	87-010-430-080		CAP, ELECT 100-63
C26	87-010-263-080		CAP, ELECT 100-10V
C27	87-012-140-080		CAP 470P<EXCEPT V>
C27	87-010-197-080		C-CAP,S 0.01-25 K B<V>
C29	87-010-247-080		CAP, ELECT 100-50V
C30	87-010-112-080		CAP, ELECT 100-16V
C31	87-010-235-080		CAP,E 470-16 SME
C33	87-010-405-080		CAP,E 10-50<HR>
C34	87-010-405-080		CAP,E 10-50<HR>
C61	87-010-260-080		CAP, ELECT 47-25V
C62	87-010-403-080		CAP, ELECT 3.3-50V
C91	87-010-401-080		CAP, E 1-50 M
C92	87-010-248-080		CAP, E 220-10 M
C93	87-010-380-080		CAP, E 47-16
C101	87-010-178-080		CHIP CAP 1000P
C102	87-010-178-080		CHIP CAP 1000P
C103	87-010-405-080		CAP, ELECT 10-50V
C104	87-010-405-080		CAP, ELECT 10-50V
C107	87-010-408-080		CAP, ELECT 47-50V
C108	87-010-408-080		CAP, ELECT 47-50V
C109	87-010-322-080		C-CAP,S 100P-50 CH
C110	87-010-322-080		C-CAP,S 100P-50 CH
C111	87-010-260-080		CAP, ELECT 47-25V
C112	87-010-260-080		CAP, ELECT 47-25V
C113	87-A10-685-080		C-CAP,S 470P-100 J CH<HR>
C113	87-A10-946-080		C-CAP,S 220P-100 J CH<EXCEPT HR>
C114	87-A10-685-080		C-CAP,S 470P-100 J CH<HR>
C114	87-A10-946-080		C-CAP,S 220P-100 J CH<EXCEPT HR>
C117	87-016-247-080		C-CAP,0.1-50 Z F<V>
C118	87-016-247-080		C-CAP,0.1-50 Z F<V>
C121	87-010-178-080		CHIP CAP 1000P
C122	87-010-178-080		CHIP CAP 1000P
C123	87-010-176-080		C-CAP,S 680P-50 SL
C124	87-010-176-080		C-CAP,S 680P-50 SL
C125	87-012-368-080		C-CAP,S 0.1-50 F
C126	87-012-368-080		C-CAP,S 0.1-50 F
C127	87-012-368-080		C-CAP,S 0.1-50 F
C128	87-012-368-080		C-CAP,S 0.1-50 F
C129	87-010-191-080		C-CAP,S 0.015-50 F
C130	87-010-191-080		C-CAP,S 0.015-50 F
C131	87-010-197-080		CAP, CHIP 0.01 DM
C132	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-197-080		CAP, CHIP 0.01 DM
C203	87-010-177-080		C-CAP,S 820P-50 SL
C204	87-010-177-080		C-CAP,S 820P-50 SL
C209	87-010-403-080		CAP, ELECT 3.3-50V
C210	87-010-403-080		CAP, ELECT 3.3-50V
C211	87-010-181-080		CAP,CHIP S 1800P
C212	87-010-181-080		CAP,CHIP S 1800P
C213	87-010-403-080		CAP, ELECT 3.3-50V
C214	87-010-403-080		CAP, ELECT 3.3-50V
C215	87-010-322-080		C-CAP,S 100P-50 CH
C216	87-010-322-080		C-CAP,S 100P-50 CH
C217	87-010-260-080		CAP, ELECT 47-25V
C218	87-010-260-080		CAP, ELECT 47-25V
C219	87-A10-946-080		C-CAP,S 220P-100 J CH
C220	87-A10-946-080		C-CAP,S 220P-100 J CH
C223	87-010-190-080		S CHIP F 0.01<EXCEPT V>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C224	87-010-190-080		S CHIP F 0.01<EXCEPT V>
C225	87-012-368-080		C-CAP,S 0.1-50 F
C226	87-012-368-080		C-CAP,S 0.1-50 F
C227	87-010-186-080		CAP,CHIP 4700P
C228	87-010-186-080		CAP,CHIP 4700P
C229	87-010-993-080		C-CAP,S 0.056-25 B
C230	87-010-993-080		C-CAP,S 0.056-25 B
C231	87-010-196-080		CHIP CAPACITOR,0.1-25
C232	87-010-196-080		CHIP CAPACITOR,0.1-25
C233	87-010-190-080		S CHIP F 0.01
C234	87-010-190-080		S CHIP F 0.01
C235	87-016-285-080		CAP, ELECT 47-100 M
C236	87-016-285-080		CAP, ELECT 47-100 M
C237	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C238	87-010-322-080		C-CAP,S 100P-50 CH<EZ>
C239	87-010-196-080		CHIP CAPACITOR,0.1-25
C240	87-010-408-080		CAP, ELECT 47-50V
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-145-080		CAP, CHIP S 270P CH
C306	87-012-145-080		CAP, CHIP S 270P CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-178-080		C-CAP,S 1000P-50 B<HR>
C313	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT HR>
C314	87-010-178-080		C-CAP,S 1000P-50 B<HR>
C314	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT HR>
C315	87-010-178-080		C-CAP,S 1000P-50 B<HR>
C315	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT HR>
C316	87-010-178-080		C-CAP,S 1000P-50 B<HR>
C316	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT HR>
C321	87-016-492-080		C-CAP,S 0.33-16 FZ
C322	87-016-492-080		C-CAP,S 0.33-16 FZ
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-012-349-080		C-CAP,S 1000P-50 CH
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C363	87-A10-772-080		CAP,M 5600P-50 J
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-016-083-080		C-CAP,S 0.15-16 RK
C374	87-016-083-080		C-CAP,S 0.15-16 RK
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-406-080		CAP, ELECT 22-50
C380	87-010-406-080		CAP, ELECT 22-50
C382	87-010-312-080		C-CAP,S 15P-50 CH
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH
C388	87-012-156-080		C-CAP,S 220P-50 CH
C391	87-010-319-080		C-CAP,S 56P-50 CH
C392	87-010-319-080		C-CAP,S 56P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C393	87-010-319-080		C-CAP,S 56P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH
C451	87-010-401-080		CAP, ELECT 1-50V
C452	87-010-401-080		CAP, ELECT 1-50V
C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C458	87-010-196-080		CHIP CAPACITOR,0.1-25
C459	87-A10-299-080		CAP,M 0.022-50 J<V>
C459	87-A11-004-080		CAP,M 0.022-50 J<EXCEPT V>
C460	87-A10-299-080		CAP,M 0.022-50 J<V>
C460	87-A11-004-080		CAP,M 0.022-50 J<EXCEPT V>
C465	87-A10-299-080		CAP,M 0.022-50 J<V>
C465	87-A11-004-080		CAP,M 0.022-50 J<EXCEPT V>
C466	87-A10-299-080		CAP,M 0.022-50 J<V>
C466	87-A11-004-080		CAP,M 0.022-50 J<EXCEPT V>
C601	87-010-180-080		C-CER 1500P
C602	87-010-180-080		C-CER 1500P
C605	87-010-318-080		C-CAP,S 47P-50 CH
C606	87-010-318-080		C-CAP,S 47P-50 CH
C613	87-016-081-080		C-CAP,S 0.1-16 RK
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C615	87-A11-011-080		CAP,M 0.12-50 J DE
C616	87-A11-011-080		CAP,M 0.12-50 J DE
C617	87-A11-008-080		CAP,M 0.056-50 J<EXCEPT V>
C617	87-A10-305-080		CAP,M 0.068-50 J<V>
C618	87-A11-008-080		CAP,M 0.056-50 J<EXCEPT V>
C618	87-A10-305-080		CAP,M 0.068-50 J<V>
C619	87-010-185-080		C-CAP,S 3900P-50 B
C620	87-010-185-080		C-CAP,S 3900P-50 B
C621	87-010-401-080		CAP, ELECT 1-50V
C622	87-010-401-080		CAP, ELECT 1-50V
C623	87-A10-307-080		CAP,M 0.10-50 J<V>
C623	87-A10-773-080		CAP,M 0.1-50 J<EXCEPT V>
C624	87-A10-307-080		CAP,M 0.10-50 J<V>
C624	87-A10-773-080		CAP,M 0.1-50 J<EXCEPT V>
C625	87-010-405-080		CAP, ELECT 10-50V
C626	87-010-405-080		CAP, ELECT 10-50V
C627	87-010-196-080		CHIP CAPACITOR,0.1-25
C629	87-010-405-080		CAP, ELECT 10-50V
C630	87-010-213-080		C-CAP,S 0.015-50 B
C631	87-010-992-080		C-CAP,S 0.047-25 B
C632	87-010-263-080		CAP, ELECT 100-10V
C633	87-010-263-080		CAP, ELECT 100-10V
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C636	87-010-194-080		C-CAP,S 0.047-25<HR>
C637	87-010-183-080		C-CAP,S 2700P-50 B
C638	87-010-314-080		C-CAP,S 22P-50V
C639	87-010-314-080		C-CAP,S 22P-50V
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C669	87-010-322-080		C-CAP,S 100P-50 CH<V>
C670	87-010-322-080		C-CAP,S 100P-50 CH<V>
C678	87-010-196-080		CHIP CAPACITOR,0.1-25<V>
C680	87-010-196-080		CHIP CAPACITOR,0.1-25<V>
C731	87-010-560-080		CAP, ELECT 10-50
C732	87-010-196-080		CHIP CAPACITOR,0.1-25
C733	87-010-196-080		CHIP CAPACITOR,0.1-25
C734	87-012-157-080		C-CAP,S 330P-50
C736	87-010-196-080		CHIP CAPACITOR,0.1-25
CN91	87-A60-109-010		CONN,2P <HR,K>
CN301	87-099-827-010		CONN,3P S2M-3W
CN351	87-099-832-010		CONN,8P S2M-8W
CN601	88-NF9-657-010		CONN,30P H BLK TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CN604	87-099-570-010		CONN,13P TUC-P13P-B1<EXCEPT 556EZ>
CN605	87-A60-189-010		CONN,16P V<556EZ>
J201	87-A60-483-010		JACK,DIA 6.3 BLK ST W/S KM
J203	87-A60-238-010		TERMINAL,SP 4P
J204	87-A60-750-010		JACK,PIN 4P
J602	87-A60-398-010		JACK,PIN 2P R/W HSP-242V24
L101	87-003-383-010		COIL,1UH-S

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L102	87-003-383-010		COIL,1UH-S
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
R20	87-A00-261-080		RES,M/F 0.56-1W J
R129	87-A00-257-080		RES,M/F 0.15-1W J
R130	87-A00-257-080		RES,M/F 0.15-1W J
R131	87-A00-257-080		RES,M/F 0.15-1W J
R132	87-A00-257-080		RES,M/F 0.15-1W J
R143	87-A00-440-050		RES,220-1/2W J<HR>
R143	87-A00-439-050		RES,180-1/2W J RP<EXCEPT HR>
R144	87-A00-440-050		RES,220-1/2W J<HR>
R144	87-A00-439-050		RES,180-1/2W J RP<EXCEPT HR>
R145	87-A00-440-050		RES,220-1/2W J<HR>
R145	87-A00-439-050		RES,180-1/2W J RP<EXCEPT HR>
R146	87-A00-440-050		RES,220-1/2W J<HR>
R146	87-A00-439-050		RES,180-1/2W J RP<EXCEPT HR>
R165	87-A00-257-080		RES,M/F 0.15-1W J
R166	87-A00-257-080		RES,M/F 0.15-1W J
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-258-080		RES,M/F 0.22-1W J
R233	87-A00-258-080		RES,M/F 0.22-1W J
R234	87-A00-258-080		RES,M/F 0.22-1W J
R265	87-A00-258-080		RES,M/F 0.22-1W J
R266	87-A00-258-080		RES,M/F 0.22-1W J
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TH101	87-A91-042-080		C-THMS,100K
TH101	87-A91-042-080		C-THMS,100K
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
JW16	87-008-372-080		FLTR,EMI BLO1 RN1
FRONT C.B			
C201	87-012-156-080		C-CAP,S 220P-50 CH
C202	87-010-322-080		C-CAP,S 100P-50 CH
C203	87-010-322-080		C-CAP,S 100P-50 CH
C204	87-010-322-080		C-CAP,S 100P-50 CH
C205	87-010-322-080		C-CAP,S 100P-50 CH
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-010-322-080		C-CAP,S 100P-50 CH
C211	87-010-322-080		C-CAP,S 100P-50 CH
C251	87-015-699-040		CAP,E 10-50 7L
C252	87-010-198-080		CAP, CHIP 0.022
C254	87-010-194-080		CAP, CHIP 0.047
C255	87-A10-586-040		CAP,E 47-35 7L SR
C256	87-015-699-040		CAP,E 10-50 7L
C259	87-015-699-040		CAP,E 10-50 7L
C260	87-010-198-080		CAP, CHIP 0.022
C262	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-010-182-080		C-CAP,S 2200P-50 B
C302	87-010-182-080		C-CAP,S 2200P-50 B
C311	87-010-194-080		CAP, CHIP 0.047
C313	87-010-196-080		CHIP CAPACITOR,0.1-25
C314	87-010-194-080		CAP, CHIP 0.047
C321	87-010-196-080		CHIP CAPACITOR,0.1-25
C323	87-010-248-040		CAP,E 220-10 SME
C324	87-010-194-080		CAP, CHIP 0.047
C331	87-010-196-080		CHIP CAPACITOR,0.1-25
C332	87-010-178-080		CHIP CAP 1000P
C333	87-012-140-080		CAP 470P
C334	87-010-312-080		C-CAP,S 15P-50 CH
C335	87-012-140-080		CAP 470P
C336	87-010-196-080		CHIP CAPACITOR,0.1-25
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C338	87-012-155-080		C-CAP 180P-50CH
C339	87-012-156-080		C-CAP,S 220P-50 CH
C340	87-010-197-080		CAP, CHIP 0.01 DM
C401	87-010-197-080		CAP, CHIP 0.01 DM
C451	87-010-196-080		CHIP CAPACITOR,0.1-25
C452	87-010-196-080		CHIP CAPACITOR,0.1-25
C453	87-010-196-080		CHIP CAPACITOR,0.1-25
C454	87-010-196-080		CHIP CAPACITOR,0.1-25
C455	87-010-196-080		CHIP CAPACITOR,0.1-25
C456	87-012-158-080		C-CAP,S 390P-50 CH
C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C502	87-010-186-080		CAP, CHIP 4700P<HR>
C503	87-010-112-040		CAP,E 100-16<HR>
C504	87-010-405-040		CAP,E 10-50<HR>
C505	87-010-546-040		CAP,E 0.33-50<HR>
C506	87-010-320-080		C-CAP,S 68P-50 CH<HR>
C507	87-010-544-040		CAP,E 0.1-50<HR>
C508	87-010-178-080		C-CAP,S 1000P-50 K<HR>
C509	87-010-544-040		CAP,E 0.1-50<HR>
C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C602	87-010-322-080		C-CAP,S 100P-50 CH
C603	87-010-322-080		C-CAP,S 100P-50 CH
C604	87-010-322-080		C-CAP,S 100P-50 CH
C701	87-010-196-080		CHIP CAPACITOR,0.1-25
CON101	87-099-720-010		CONN,30P TYK-B(P)
CON102	87-099-015-010		CONN,13P 6216V
CON301	87-099-017-010		CONN,15P 6216 V<HR>
CON301	87-099-013-010		CONN,11P 6216 V<EXCEPT HR>
EMI201	87-008-372-080		FILTER, EMI BL OIRNI
EMI202	87-008-372-080		FILTER, EMI BL OIRNI
EMI701	87-A50-322-080		C-COIL,S BK2125 LM252
FL401	8Z-NF8-616-010		FL,SVA-11MM22
J501	87-A60-651-010		JACK,3.5 MONO<HR>
L331	87-A50-434-010		COIL,CLK 4.19M(TOKO)
LED311	87-A40-317-080		LED,SLR-342VCT31 RED
LED601	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED602	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED603	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED604	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED605	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED606	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED607	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED608	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED609	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED610	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED611	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED612	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED613	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED614	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED631	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED632	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED633	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED634	87-A40-619-040		LED,SLR-56PT-T31-W GRN
SW401	87-A91-024-080		SW,TACT KSH0611BT
SW402	87-A91-024-080		SW,TACT KSH0611BT
SW403	87-A91-024-080		SW,TACT KSH0611BT
SW404	87-A91-024-080		SW,TACT KSH0611BT
SW405	87-A91-024-080		SW,TACT KSH0611BT
SW406	87-A91-024-080		SW,TACT KSH0611BT
SW407	87-A91-024-080		SW,TACT KSH0611BT
SW408	87-A91-024-080		SW,TACT KSH0611BT
SW409	87-A91-024-080		SW,TACT KSH0611BT
SW410	87-A91-024-080		SW,TACT KSH0611BT
SW411	87-A91-024-080		SW,TACT KSH0611BT
SW412	87-A91-024-080		SW,TACT KSH0611BT
SW413	87-A91-024-080		SW,TACT KSH0611BT
SW414	87-A91-024-080		SW,TACT KSH0611BT
SW415	87-A91-024-080		SW,TACT KSH0611BT
SW416	87-A91-024-080		SW,TACT KSH0611BT
SW417	87-A91-024-080		SW,TACT KSH0611BT
SW418	87-A91-024-080		SW,TACT KSH0611BT

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SW419	87-A91-024-080		SW,TACT KSH0611BT
SW420	87-A91-024-080		SW,TACT KSH0611BT
SW421	87-A91-024-080		SW,TACT KSH0611BT
SW422	87-A91-024-080		SW,TACT KSH0611BT
SW423	87-A91-024-080		SW,TACT KSH0611BT
SW424	87-A91-024-080		SW,TACT KSH0611BT
SW425	87-A91-024-080		SW,TACT KSH0611BT
SW426	87-A91-024-080		SW,TACT KSH0611BT
SW427	87-A91-024-080		SW,TACT KSH0611BT
SW428	87-A91-024-080		SW,TACT KSH0611BT<HR>
SW430	87-A91-024-080		SW,TACT KSH0611BT<556EZ>
SW431	87-A91-024-080		SW,TACT KSH0611BT<556EZ>
SW432	87-A91-024-080		SW,TACT KSH0611BT<556EZ>
SW434	87-A91-024-080		SW,TACT KSH0611BT<HR>
SW252	87-A90-535-010		SW,RTRY EC16B24304
SW253	87-A90-950-010		SW,RTRY EC12E12504 ENCORDER
VR501	87-NB7-602-010		VR,RTRY 10KAX1<HR>

PS C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C1	87-010-388-080		CAP,E 1000-25<HR>
C1	87-010-387-080		CAP,E 470-25 SME<K,V>
C8	87-A10-520-090		CAP,E 3300-35<HR>
C9	87-A10-520-090		CAP,E 3300-35<HR>
C31	87-010-403-040		CAP,E 3.3-50 M<K,V>
CN1	87-A60-851-010		CONN,9P V VH<HR>
CN1	87-A60-850-010		CONN,7P V VH<EXCEPT HR>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491S 60V<HR>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491S 60V<HR>
⚠ PT1	8Z-NF8-605-010		PT,ZNF-8 HR<HR>
⚠ PT1	8Z-NF8-606-010		PT,ZNF-8 EZ<EZ,K,V>
⚠ PT2	8Z-NF8-663-010		PT,SUB ZNF-8<HR>
⚠ PT2	8Z-NF8-662-010		PT,SUB ZNF-8(E)<EXCEPT HR>
⚠ RY1	87-A91-281-010		RELAY,AC DC12V OSA-SS-212DM<HR>
⚠ RY2	87-A90-976-010		RELAY,AC12VSDT-S-112LMR<EZ,K,V>
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<HR>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC

TUNER C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25
C705	87-A10-592-080		C-CAP,S 0.015-50 <EXCEPT EZ,K>
C706	87-A10-592-080		C-CAP,S 0.015-50 <EXCEPT EZ,K>
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-010-553-080		CAP,E 47-16 M 5L<HR>
C711	87-010-260-080		CAP,ELECT 47-25<EXCEPT HR>
C712	87-010-831-080		C-CAP,U,0.1-16F
C714	87-012-286-080		CAP, U 0.01-25
C717	87-012-286-080		CAP, U 0.01-25
C718	87-012-179-080		C-CAP,U 20P-50CH<V>
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-018-131-080		CAP,TC U 1000P-50 K B<EZ,K>
C725	87-012-274-080		CHIP CAP,U 1000P-50B<EXCEPT EZ,K>
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C729	87-012-274-080		CHIP CAP,U 1000P-50B
C731	87-012-286-080		CAP, U 0.01-25
C733	87-012-280-080		C-CAP,U 3300P-50 KB<EZ,K>
C733	87-010-987-080		C-CAP,S 1500P-50 CH<EXCEPT EZ,K>
C734	87-012-280-080		C-CAP,U 3300P-50 KB<EZ,K>
C734	87-010-987-080		C-CAP,S 1500P-50 CH<EXCEPT EZ,K>
C735	87-010-987-080		C-CAP,S 1500P-50 CH<EXCEPT EZ,K>
C736	87-010-987-080		C-CAP,S 1500P-50 CH<EXCEPT EZ,K>
C737	87-A10-592-080		C-CAP,S 0.015-50 J B<EXCEPT EZ,K>
C738	87-A10-592-080		C-CAP,S 0.015-50 J B<EXCEPT EZ,K>
C751	87-010-220-080		C-CAP,S 0.018-25KB<EXCEPT EZ,K>
C751	87-012-365-080		C-CAP,S 0.027-25<V>
C752	87-010-220-080		C-CAP,S 0.018-25KB<EXCEPT EZ,K>
C752	87-012-282-080		C-CAP,U 4700P-50 KB<EZ,K>
C752	87-012-365-080		C-CAP,S 0.027-25<V>
C753	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>
C755	87-012-286-080		CAP, U 0.01-25<EZK>
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C762	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH<EXCEPT EZ,K>
C765	87-012-286-080		CAP, U 0.01-25
C766	87-017-197-080		C-CAP,S 0.01-25 K B<EZ,K>
C768	87-012-286-080		CAP, U 0.01-25
C769	87-010-260-080		CAP, ELECT 47-25V
C770	87-010-829-080		CAP, U 0.047-16
C771	87-010-383-080		CAP, ELECT 33-25V
C772	87-010-829-080		CAP, U 0.047-16
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-012-286-080		CAP, U 0.01-25<EXCEPT HR>
C777	87-010-400-080		CAP, ELECT 0.47-50V<EXCEPT EZ,K>
C777	87-010-493-080		CAP, E 0.47-50M 5L
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-010-494-080		CAP, E 1-50M 5L<HR>
C785	87-010-401-080		CAP, ELECT 1-50V<EXCEPT HR>
C786	87-010-494-080		CAP, E 1-50M 5L<HR>
C786	87-010-401-080		CAP, ELECT 1-50V<EXCEPT HR>
C787	87-012-275-080		C-CAP,U 1200P-50 B
C788	87-012-275-080		C-CAP,U 1200P-50 B
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-012-276-080		C-CAP,U 1500P-50 B<EZ,K>
C798	87-012-276-080		C-CAP,U 1500P-50 B<EZ,K>
C799	87-010-829-080		CAP, U 0.047-16
C805	87-012-286-080		CAP, U 0.01-25
C806	87-012-286-080		CAP, U 0.01-25
C812	87-012-286-080		CAP, U 0.01-25
C814	87-012-286-080		CAP, U 0.01-25<EZ,K>
C820	87-010-260-080		CAP, ELECT 47-25V
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-012-286-080		CAP, U 0.01-25<556EZ>
C861	87-012-199-080		C-CAP,U 220P-50 J CH<556EZ>
C862	87-012-199-080		C-CAP,U 220P-50 J CH<556EZ>
C863	87-012-270-080		C-CAP,U 470P-50 K B<556EZ>
C864	87-010-405-080		CAP, ELECT 10-50V<556EZ>
C865	87-010-196-080		CHIP CAPACITOR,0.1-25<556EZ>
C866	87-010-405-080		CAP, ELECT 10-50V<556EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C867	87-012-286-080		CAP, U 0.01-25<556EZ>
C868	87-012-184-080		C-CAP,U 33P-50 J CH<556EZ>
C869	87-012-180-080		C-CAP,U 22P-50 J CH<556EZ>
C940	87-012-286-080		C-CAP,U 0.01-25 KB<EXCEPT V>
C941	87-012-180-080		C-CAP,U 22P-50 J CH<HR>
C942	87-012-172-080		C-CAP,U 10P-50 CH<EZ,K>
C943	87-012-286-080		C-CAP,U 0.01-25 KB<HR>
C944	87-014-051-080		CAP,PP 560P-100 J PL<HR>
C945	87-012-286-080		C-CAP,U 0.01-25 KB<HR>
C947	87-012-286-080		C-CAP,U 0.01-25 KB<EXCEPT V>
C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ,K>
C950	87-014-073-080		CAP,PP 4700P-100J<HR>
C952	87-012-286-080		C-CAP,U 0.01-25 KB<EXCEPT V>
C953	87-012-286-080		C-CAP,U 0.01-25 KB<HR>
C954	87-012-358-080		C-CAP,S 0.47-10 ZF<HR>
C956	87-010-263-080		CAP,E 100-10M 11L<HR>
C958	87-017-197-080		C-CAP,S 0.01-25 K B<EZ,K>
C959	87-010-831-080		C-CAP,U 0.1-16 ZF<EXCEPT V>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25<V>
C960	87-012-350-080		C-CAP,1-25 ZF<HR>
C960	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C961	87-012-174-080		CAP CHIP CERA SS 12P CH J
C962	87-010-401-080		CAP,E 1-50 M 11L
C963	87-010-196-080		CHIP CAPACITOR,0.1-25<V>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<EXCEPT EZ,K>
CF801	87-008-423-010		FILTER, CF SFE10.7MS3 G-A<EZ,K>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<EXCEPT EZ,K>
CF802	82-785-747-010		CF,MS2 GHY R<EZ,K>
CN701	87-A60-700-010		CONN,13P H GRY <EXCEPT 556EZ>
CN701	87-A60-650-010		CONN,16P H GRY TUC-P16X-C1<556EZ>
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM<HR>
FFE801	A8-6ZA-193-130		6ZA-1 FEVNM<V>
FFE801	A8-6ZA-191-130		6ZA-1 FEENM<EZ,K>
J801	87-A60-703-010		TERMINAL,ANT3P CJ-9037<HR>
J801	87-A60-702-010		TERMINAL,ANT4P CJ-9306<V>
J940	81-754-629-010		CONNECTOR XH 2P (UL)
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HR>
L772	87-A90-733-010		FLTR,PCFAZH-450(TOK)<EZ,K>
L772	87-A91-110-010		FLTR,PCFJZH-450(TOK)<V>
L781	87-005-847-010		COIL,2.2UH K CECS<EZ,K>
L791	87-A50-027-010		COIL 1 POLE MPX(TOK)<EZ,K>
L792	87-A50-027-010		COIL 1 POLE MPX(TOK)<EZ,K>
L832	87-005-847-010		COIL,2.2UH K CECS<EZ,K>
L851	87-005-847-010		COIL,2.2UH K CECS<556EZ>
L941	87-A50-022-010		COIL,ANT SW(COI)7.96MHZ<HR>
L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ<EZ,K>
L942	87-A50-173-010		COIL,OSC SW-N(COI)<HR>
L942	87-A50-019-010		COIL,OSC LW-N(COI)856KHZ<EZ,K>
L943	87-A50-432-010		COIL,1MH K CW<HR>
L944	87-A50-159-010		COIL,10MH K C2B<HR>
L981	88-NF8-625-110		COIL,AM PACK 3N(TOK)<HR>
L981	87-NF4-651-110		COIL,AM PACK 2N<EZ,K>
L981	8Z-ZA1-664-010		COIL,AM PACK 4N(TOK)<V>
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9
TC942	87-011-164-010		TRIMMER,CER 30P 4.5X3.9<EZ,K>
TC943	87-011-221-080		TRIMMER,CER 30P 6.15X5.9<HR>
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X771	87-030-354-010		VIB,CER 450.0KHZ BFU C<HR>
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309<556EZ>

DECK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CON105	87-099-753-019		CONN,11P 9604<EXCEPT HR>
CON105	87-099-756-019		CONN,15P 9604 S F<HR>
CON301	85-MA2-615-010		CONN,ASSY 3P<EXCEPT HR>
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY,27
SOL2	82-ZM1-618-410		SOL ASSY,27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-019		SW,MICRO SPPB62
SW5	87-036-110-019		SW,MICRO SPPB62
SW6	87-036-110-019		SW,MICRO SPPB62<HR>
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ<HR>
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ<HR>
W1	82-ZM3-601-019		RBN,CORD,4P-75

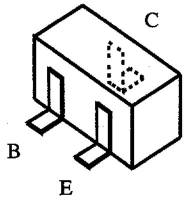
HEAD-1 C.B

	85-ZM3-602-010		PWB,FLEX A

HEAD-2 C.B

	85-ZM3-602-010		PWB,FLEX A
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

TRANSISTOR ILLUSTRATION



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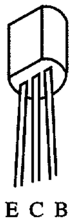

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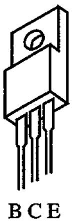

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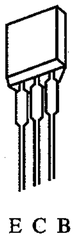

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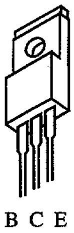

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FP1016
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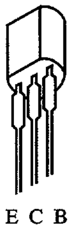
2SD2025



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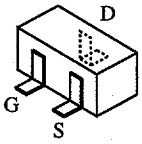


2SK2158

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

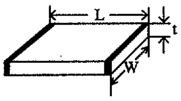
8 8 - □□□ □□□

A
抵抗部品コード
Resistor Code

桁表示
Figure

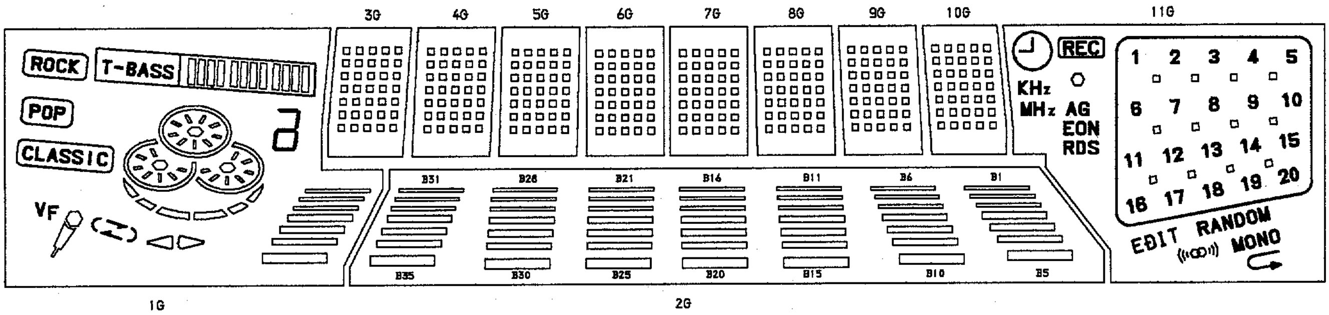
抵抗値
Value of resistor

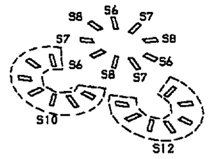
チップ抵抗
Chip resistor

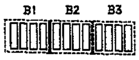
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

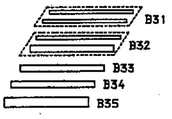
FL GRID ASSIGNMENT & ANODE CONNECTION

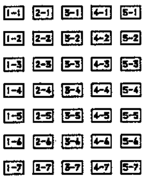
GRID ASSIGNMENT


3G
4G
5G
6G
7G
8G
9G
10G
11G
ROCK
T-BASS
POP
CLASSIC
VF
REC
KHz
MHz
AG
EON
RDS
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
EDIT
RANDOM
MONO
B31
B26
B21
B16
B11
B6
B1
B35
B30
B25
B20
B15
B10
B5
1G
2G

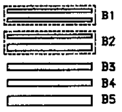

S8
S6
S7
S7
S8
S6
S6
S8
S7
S10
S12



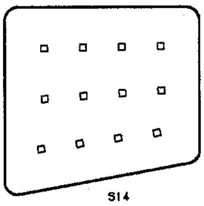

B31
B32
B33
B34
B35


1-1 2-1 3-1 4-1 5-1
1-7 2-7 3-7 4-7 5-7

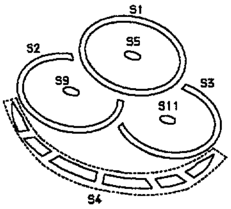
(3G-10G)

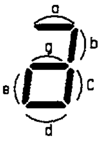

B1
B2
B3
B4
B5

(2G)



S14
(11G)


S1
S2
S5
S9
S3
S11
S4



(1G)

ROCK
POP
CLASSIC

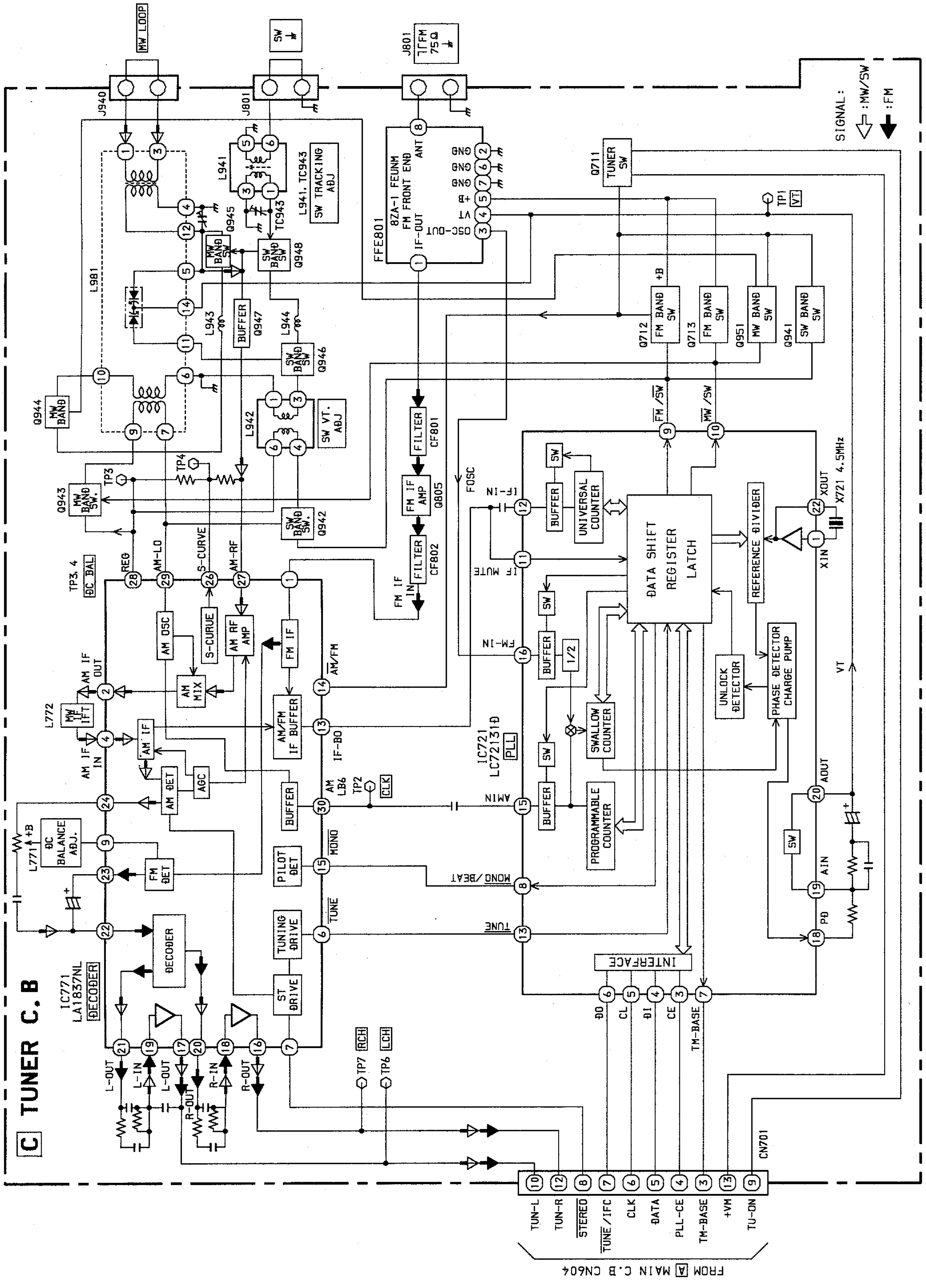
S13

ANODE CONNECTION

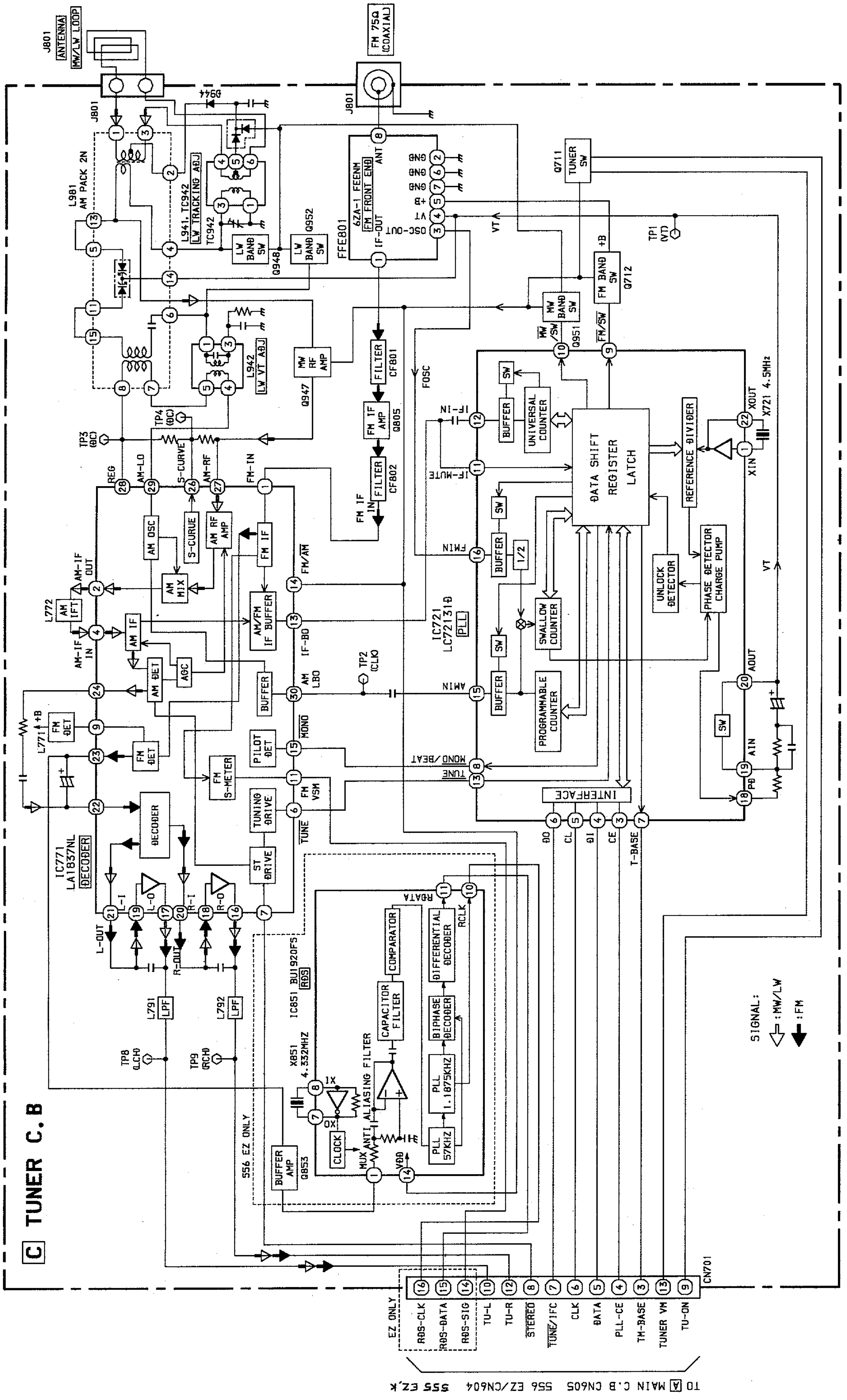
	1G	2G	3G-10G	11G
P1	S13	B35	1-1	↪
P2	ROCK	B30	2-1	**MONO**
P3	POP	B25	3-1	**RANDOM**
P4	CLASSIC	B20	4-1	((ꝏ))
P5	VF	B15	5-1	**EDIT**
P6	(	B10	1-2	◷
P7	⇄	B5	2-2	**REC**
P8	)	B34	3-2	**KHz**
P9	◁	B29	4-2	**MHz**
P10	▷	B24	5-2	O
P11	S4	B19	1-3	**AG**
P12	S2	B14	2-3	**EON**
P13	S10	B9	3-3	**RDS**
P14	S9	B4	4-3	S14
P15	S3	B33	5-3	20
P16	S12	B28	1-4	19
P17	S11	B23	2-4	18
P18	S1	B18	3-4	17

	1G	2G	3G-10G	11G
P19	S6	B13	4-4	16
P20	S7	B8	5-4	15
P21	S8	B3	1-5	14
P22	S5	B32	2-5	13
P23	**T-BASS**	B27	3-5	12
P24	B1	B22	4-5	11
P25	B2	B17	5-5	10
P26	B3	B12	1-6	9
P27	e	B7	2-6	8
P28	a, g, d	B2	3-6	7
P29	b	B31	4-6	6
P30	c	B26	5-6	5
P31	B35	B21	1-7	4
P32	B34	B16	2-7	3
P33	B33	B11	3-7	2
P34	B32	B6	4-7	1
P35	B31	B1	5-7	-

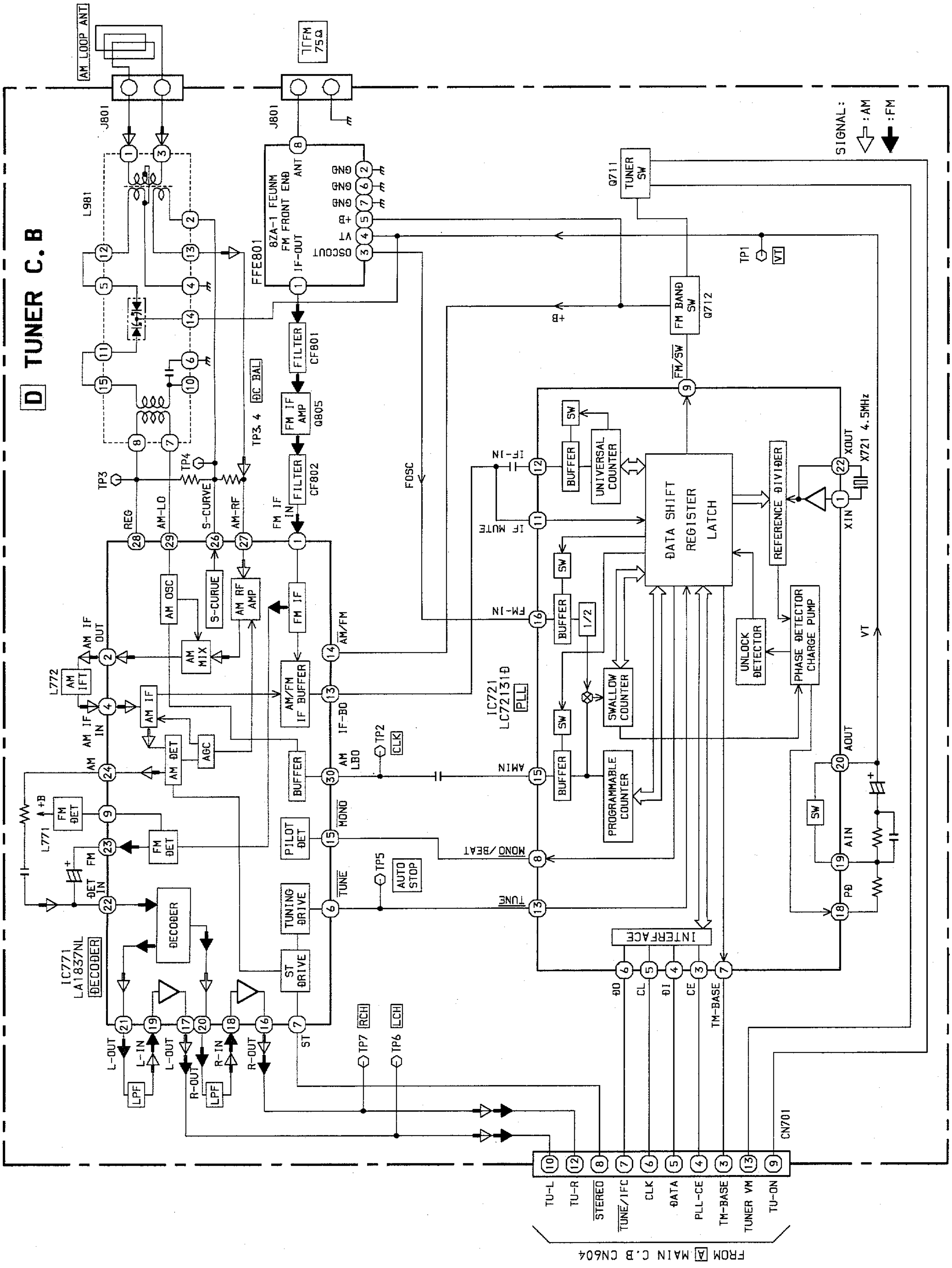
BLOCK DIAGRAM – 1 (TUNER : HR)


C TUNER C. B
MW LOOP
J940
SW
J801
J801 FM 75Ω
8ZA-1 FEUNM FM FRONT END
FFE801
ANT
GND
+B
VT
OSC-OUT
IF-OUT
L941
TC943
L941, TC943 SW TRACKING ADJ
Q945 MW BAND SW
Q948 SW BAND SW
L981
BUFFER Q947
L943
L944
Q946 SW BAND SW
Q944 MW BAND
L942
SW VT. ADJ
Q943 MW BAND SW.
Q942 SW BAND SW.
TP3
TP4
TP3, 4 DC BAL
REG
AM-LO
S-CURVE
AM-RF
AM OSC
S-CURVE
AM RF AMP
FM IF
AM MIX
AM/FM IF BUFFER
AM IF OUT
AM IF IN
MW IF IFT
L772
AM IF
AM DET
AGC
BUFFER
AM LB6
TP2 CLK
L771 +B
DC BALANCE ADJ.
FM DET
PILOT DET
MONO
TUNING DRIVE
TUNE
DECODER
ST DRIVE
IC771 LA1837NL DECODER
L-OUT
L-IN
R-OUT
R-IN
IF-BO
AM/FM
TP7 RCH
TP6 LCH
FILTER CF801
FM IF AMP Q805
FILTER CF802
FM IF IN
FOSC
IF-IN
IF MUTE
FM-IN
AMIN
MONO/BEAT
TUNE
BUFFER
SW
UNIVERSAL COUNTER
1/2
SWALLOW COUNTER
PROGRAMMABLE COUNTER
DATA SHIFT REGISTER LATCH
REFERENCE DIVIDER
UNLOCK DETECTOR
PHASE DETECTOR CHARGE PUMP
INTERFACE
IC721 LC72131D PLL
FM/SW
MW/SW
XOUT
X721 4.5MHz
XIN
VT
AOUT
AIN
PD
DO
CL
DI
CE
TM-BASE
Q711 TUNER SW
TP1 VT
Q712 FM BAND SW
Q713 FM BAND SW
Q951 MW BAND SW
Q941 SW BAND SW
SIGNAL: MW/SW FM
CN701
TUN-L
TUN-R
STEREO
TUNE/IFC
CLK
DATA
PLL-CE
TM-BASE
+VM
TU-ON
FROM A MAIN C.B CN604

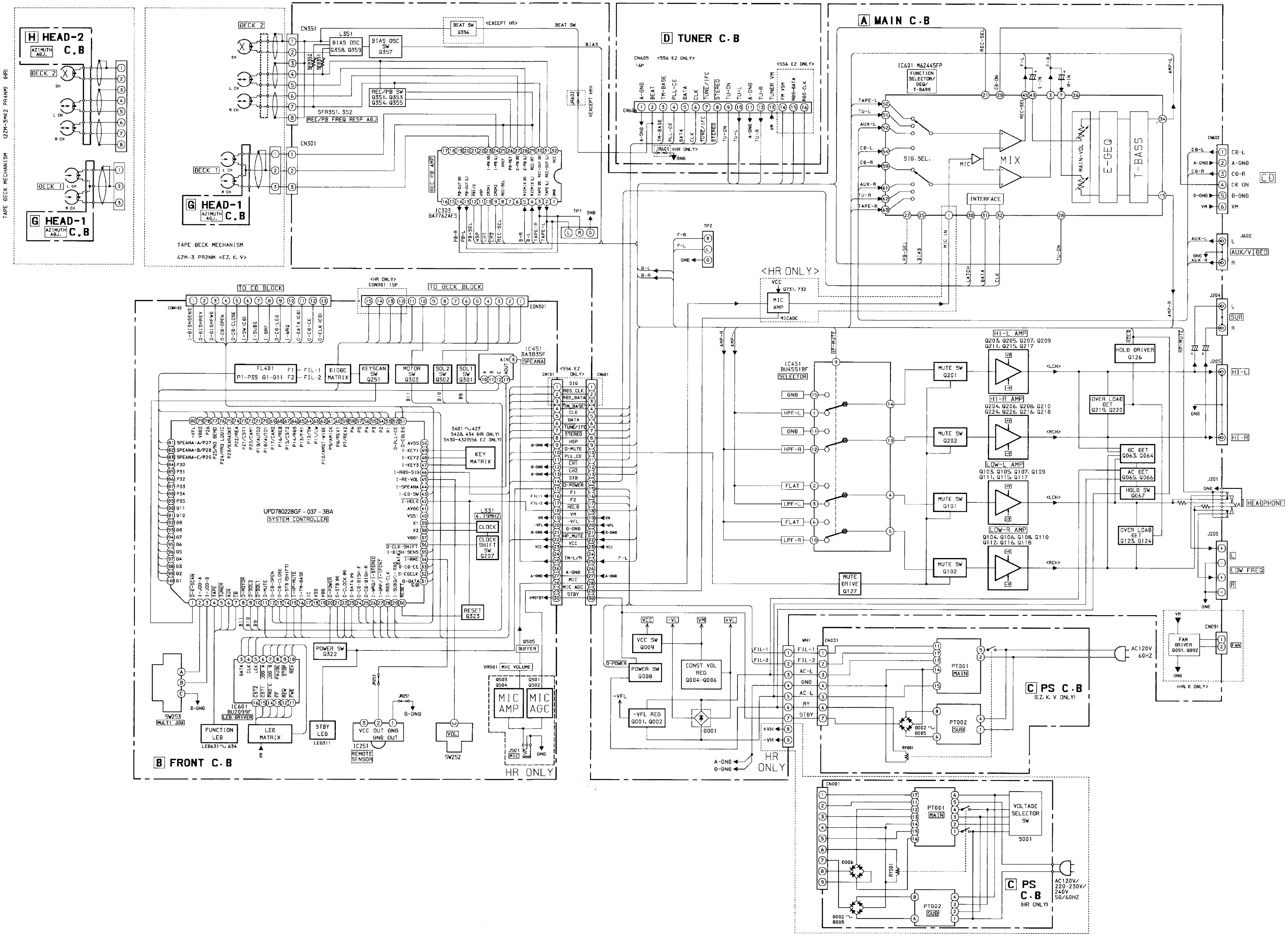
BLOCK DIAGRAM – 2 (TUNER : EZ, K)


C TUNER C. B
J801 ANTENNA MW/LW LOOP
J801 FM 75Ω (COAXIAL)
L981 AM PACK 2N
D944
L941, TC942 LW TRACKING ADJ
TC942
LW BAND SW Q948
LW BAND SW Q952
L942 LW VT ADJ
MW RF AMP Q947
FFE801 6ZA-1 FEENM FM FRONT END
ANT GND GND GND +B VT OSC-OUT IF-OUT
Q711 TUNER SW
FM BAND +B SW Q712
MW BAND SW Q951
MW/SW FM/SW
TP1 (VT)
TP3 (BC)
TP4 (BC)
FILTER CF801
FM IF AMP Q805
FILTER CF802
FM IF IN
FOSC
IC721 LC72131D PLL
IF-IN IF-MUTE FMIN AMIN MONO/BEAT TUNE
BUFFER UNIVERSAL COUNTER SW
DATA SHIFT REGISTER LATCH
REFERENCE DIVIDER
X721 4.5MHz XOUT XIN
1/2 SWALLOW COUNTER
UNLOCK DETECTOR
PHASE DETECTOR CHARGE PUMP
PROGRAMMABLE COUNTER
AOUT AIN PD VT
INTERFACE
DO CL DI CE T-BASE
REG AM-LO S-CURVE AM-RF FM-IN
AM OSC S-CURVE AM RF AMP FM IF
AM MIX AM/FM IF BUFFER
AM-IF OUT AM-IF IN
L772 AM IFT
AM IF AGC AM DET
FM/AM IF-BO
BUFFER AM LBO
TP2 (CLK)
L771 +B FM DET
PILOT DET MONO
FM S-METER FM VSM
TUNING DRIVE TUNE
ST DRIVE
DECODER
IC771 LA1837NL DECODER
L-I L-O R-I R-O L-OUT R-OUT
L791 LPF
L792 LPF
TP8 (LCH)
TP9 (RCH)
IC851 BU1920FS RDS
X851 4.332MHz
IX OX CLOCK MUX ANTI ALIASING FILTER VDD
CAPACITOR FILTER COMPARATOR
PLL 57KHZ PLL 1.1875KHZ
BIPHASE DECODER DIFFERENTIAL DECODER
RDATA RCLK
BUFFER AMP Q853
556 EZ ONLY
CN701
EZ ONLY
RDS-CLK RDS-DATA RDS-SIG TU-L TU-R STEREO TUNE/IFC CLK DATA PLL-CE TM-BASE TUNER VM TU-ON
TO A MAIN C.B CN605 556 EZ/CN604 555 EZ,K
SIGNAL: ⇩ :MW/LW ⬇ :FM

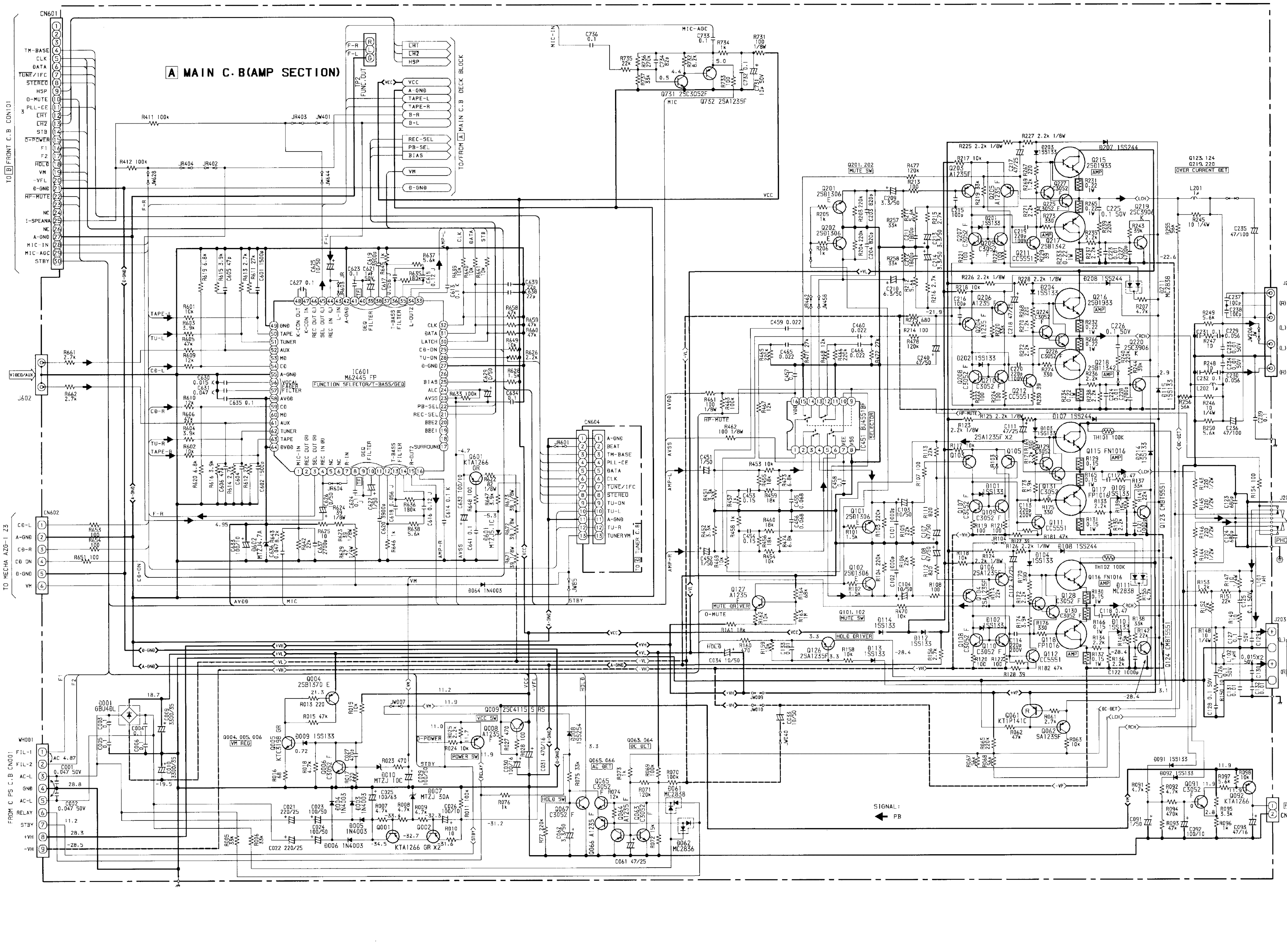
BLOCK DIAGRAM – 3 (TUNER : V)


D TUNER C. B
AM LOOP ANT
FM 75Ω
J801
L981
FFE801
8ZA-1 FEUNM
FM FRONT END
ANT
GND
B+
VT
OSCOUT
IF-OUT
FILTER
CF801
FM IF AMP
Q805
CF802
FM IF IN
TP3, 4 ΦC BAL
TP3
TP4
REG
AM-LO
S-CURVE
AM-RF
AM OSC
S-CURVE
AM RF AMP
FM IF
AM MIX
AM IF OUT
L772
AM IFT
AM IF IN
AM IF
AM/FM IF BUFFER
AM ΦET
AGC
AM
BUFFER
AM LBO
IF-BO
TP2 CLK
L771
FM ΦET
+B
FM
ΦET IN
PILOT ΦET
MONO
TUNING DRIVE
TUNE
TP5 AUTO STOP
ΦECOΦER
ST ΦRIVE
ST
IC771
LA1837NL
ΦECOΦER
L-OUT
L-IN
R-IN
R-OUT
LPF
TP7 RCH
TP6 LCH
FOSC
+B
IC721
LC72131Φ
PLL
IF-IN
IF MUTE
FM-IN
AMIN
MONO/BEAT
TUNE
BUFFER
SW
1/2
UNIVERSAL COUNTER
SWALLOW COUNTER
PROGRAMMABLE COUNTER
ΦATA SHIFT REGISTER LATCH
REFERENCE ΦIVIΦER
UNLOCK ΦETECTOR
PHASE ΦETECTOR CHARGE PUMP
INTERFACE
ΦO
CL
ΦI
CE
TM-BASE
XOUT
X721 4.5MHz
XIN
AOUT
AIN
PΦ
VT
FM/SW
FM BAND SW
Q712
TUNER SW
Q711
TP1 VT
SIGNAL: ⇩ :AM ⬇ :FM
CN701
TU-L
TU-R
STEREO
TUNE/IFC
CLK
ΦATA
PLL-CE
TM-BASE
TUNER VM
TU-ON
FROM A MAIN C.B CN604

BLOCK DIAGRAM – 4 (MAIN)

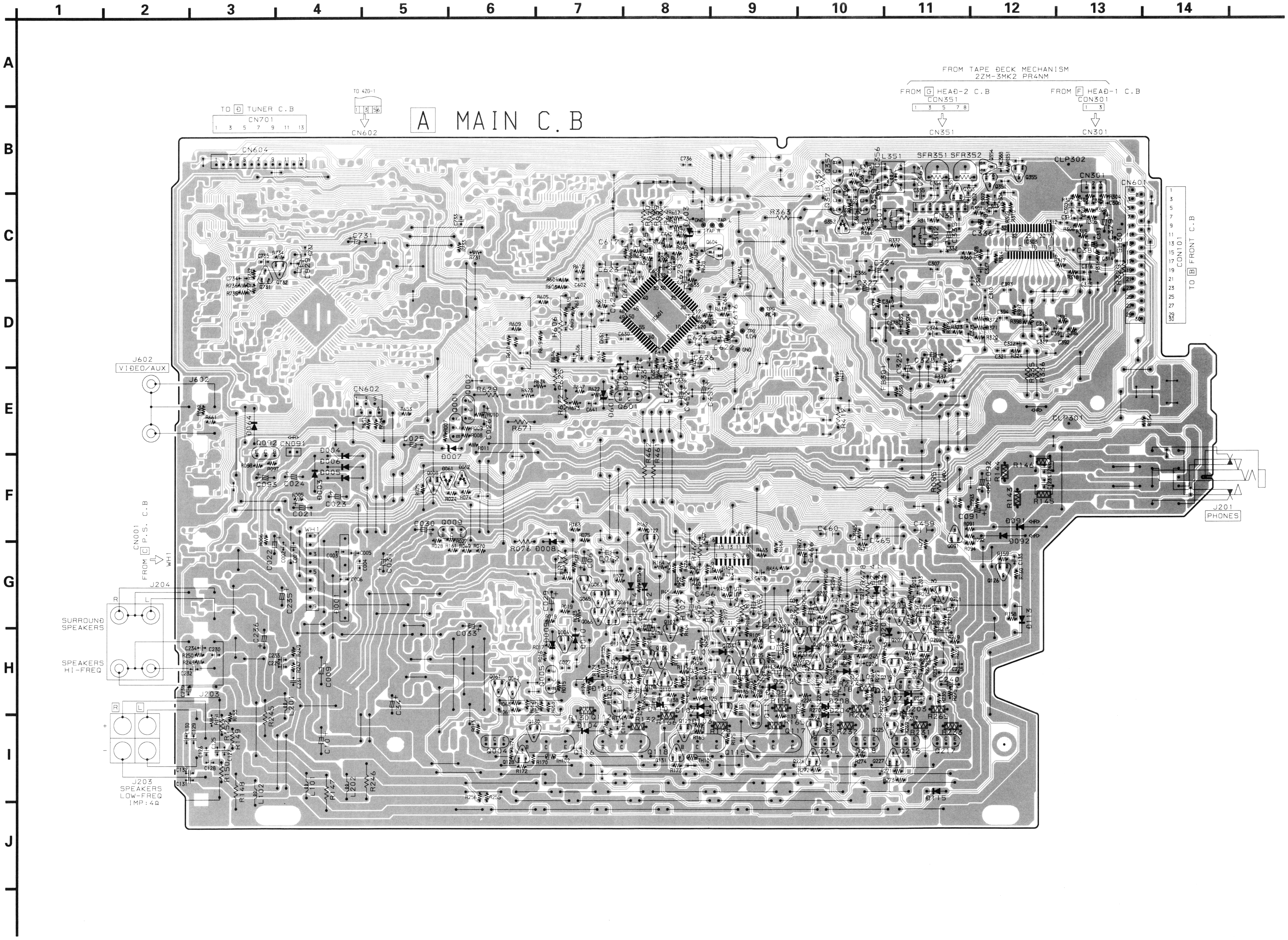

H HEAD-2 C.B
AZIMUTH ADJ.
DECK 2
DECK 1
G HEAD-1 C.B
TAPE DECK MECHANISM (ZM-3MK2 PR4NM) (HR)
TAPE DECK MECHANISM
ZM-3 PR2NM <EZ, K, V>
CN351
L351
BIAS OSC Q358, Q359
BIAS OSC SW Q357
BEAT SW Q356
<EXCEPT HR>
BEAT SW
BIAS
REC/PB SW Q351, Q353 Q354, Q355
SFR351, 352
REC/PB FREQ RESP ADJ
CN301
REC PB AMP
IC303 BA7762AFS
TP1
D TUNER C.B
CN605 <556 EZ ONLY> 16P
A-GND
BEAT
TM-BASE
PLL-CE
DATA
CLK
TUNE/IFC
STEREO
TU-ON
TU-L
TU-R
TUNER VM
FM VSM
RDS-DATA
RDS-CLK
JR601 <HR ONLY>
A MAIN C.B
IC601 M62445FP
FUNCTION SELECTOR/ GEQ/ T-BASS
TAPE-L
TU-L
AUX-L
CD-L
CD-R
AUX-R
TU-R
TAPE-R
SIG.SEL.
MIC
MIX
MAIN-VOL
E-GEQ
T-BASS
INTERFACE
REC-SEL
CN602
CD-L
A-GND
CD-R
CD ON
D-GND
VM
CD
J602
AUX/VIDEO
TP2
<HR ONLY>
MIC AMP
Q731, 732
MICAGC
TO CD BLOCK
TO DECK BLOCK
CN102
CN301 15P
<HR ONLY>
IC451 BA3835F
SPEANA
FL401
P1-P35 G1-G11
FIL-1
FIL-2
DIODE MATRIX
KEYSCAN SW Q251
MOTOR SW Q303
SOL2 SW Q302
SOL1 SW Q301
<556 EZ ONLY>
CN101
CN601
UPD780228GF-037-3BA
SYSTEM CONTROLLER
S401 ~ 427
S428, 434 (HR ONLY)
S430-432(556 EZ ONLY)
KEY MATRIX
L331 4.19MHZ
CLOCK
CLOCK SHIFT SW Q207
RESET Q323
POWER SW Q322
Q505 BUFFER
VR501 MIC VOLUME
Q503 Q504
Q501 Q502
MIC AMP
MIC AGC
J501 MIC
HR ONLY
SW253 MULTI JOG
FUNCTION LED
LED631 ~ 634
IC601 BU2099F
LED DRIVER
LED MATRIX
STBY LED
LED311
IC251 REMOTE SENSOR
VCC OUT GND GND OUT
JR251
VOL
SW252
B FRONT C.B
IC451 BU4551BF
SELECTOR
GND
HPF-L
HPF-R
FLAT
LPF-L
LPF-R
HP-MUTE
MUTE SW Q201
MUTE SW Q202
MUTE SW Q101
MUTE SW Q102
MUTE DRIVE Q127
HI-L AMP
Q203, Q205, Q207, Q209
Q211, Q215, Q217
HI-R AMP
Q204, Q206, Q208, Q210
Q224, Q226, Q216, Q218
LOW-L AMP
Q103, Q105, Q107, Q109
Q111, Q115, Q117
LOW-R AMP
Q104, Q106, Q108, Q110
Q112, Q116, Q118
<LCH>
<RCH>
HOLD DRIVER Q126
OVER LOAD DET Q219, Q220
DC DET Q063, Q064
AC DET Q065, Q066
HOLD SW Q067
OVER LOAD DET Q123, Q124
J204 SUR
J205 HI-L HI-R
J201 HEADPHONE
J203 LOW FREQ
VCC SW Q009
POWER SW Q008
CONST VOL REG Q004-Q006
-VFL REG Q001, Q002
D001
CN001
PT001 MAIN
PT002 SUB
D002 ~ D005
RY001
AC120V 60HZ
C PS C.B (EZ, K, V ONLY)
FAN DRIVER Q091, Q092
CN091
FAN
<HR K ONLY>
A-GND
D-GND
HR ONLY
VOLTAGE SELECTOR SW
S001
D006
C PS C.B (HR ONLY)
AC120V/ 220-230V/ 240V 50/60HZ

SCHEMATIC DIAGRAM – 1 (MAIN : HR)

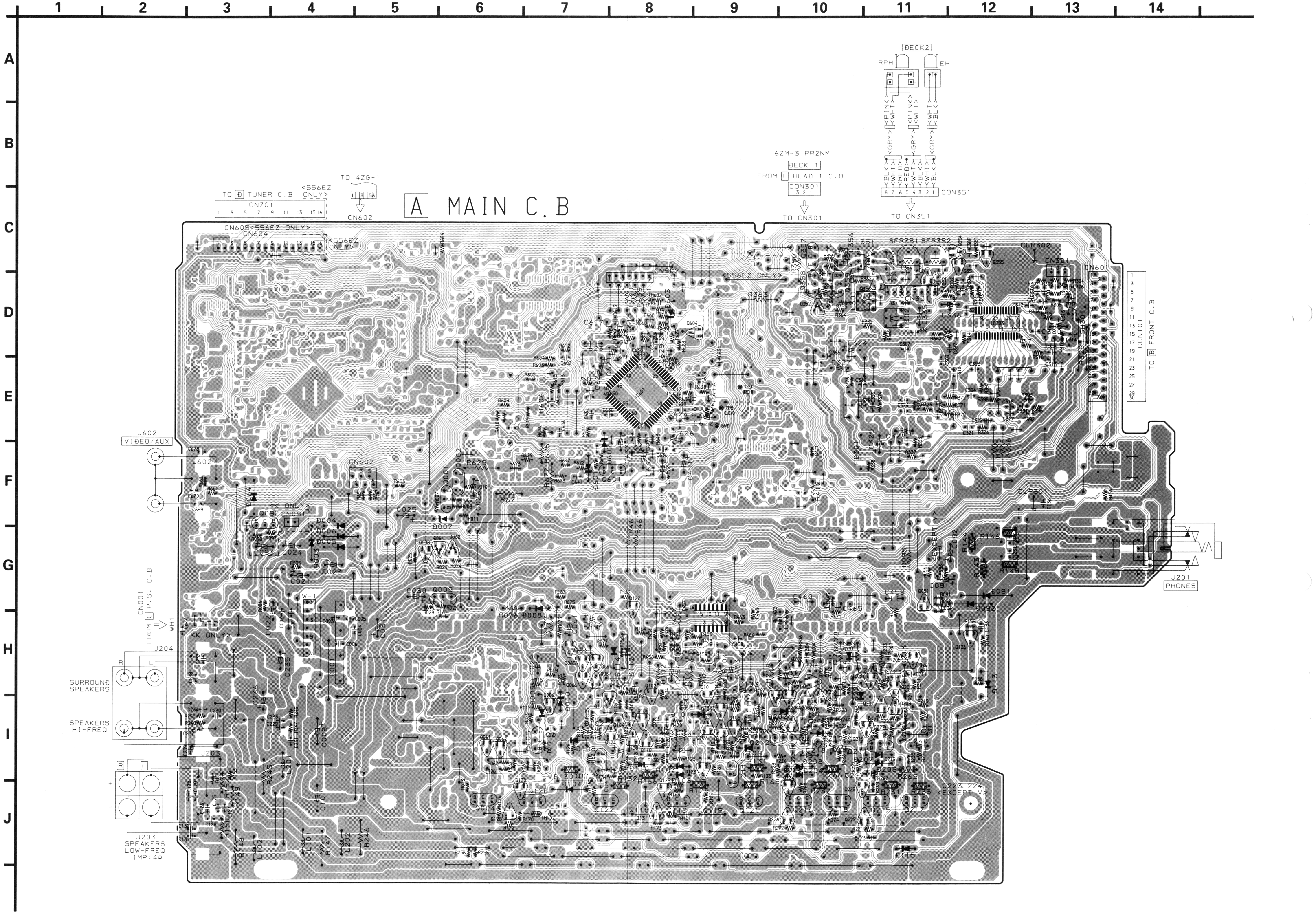


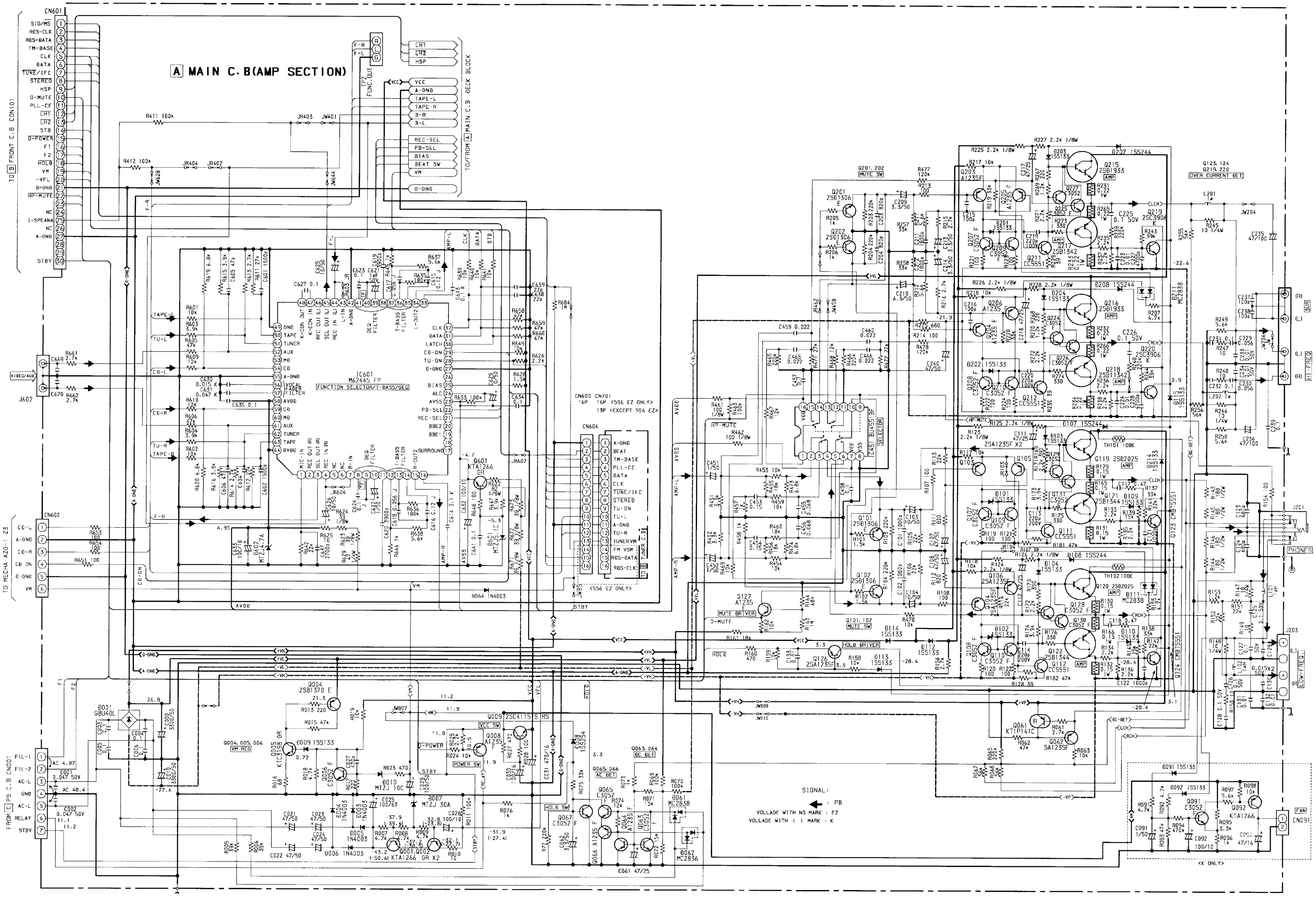
A MAIN C.B (AMP SECTION)
CN601
TO B FRONT C.B CON101
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
HSP
O-MUTE
PLL-CE
LH1
LH2
STB
O-POWER
F1
F2
HOLD
VM
-VFL
B-GND
HP-MUTE
NC
I-SPEANA
NC
A-GND
MIC-IN
MIC-AGC
STBY
TO/FROM A MAIN C.B DECK BLOCK
TP2 FUNC.OUT
VCC
A-GND
TAPE-L
TAPE-R
B-R
B-L
REC-SEL
PB-SEL
BIAS
VM
B-GND
Q731 2SC3052F
Q732 2SA1235F
IC601 M62445 FP
FUNCTION SELECTOR/T-BASS/GEQ
VIDEO/AUX
J602
CN602
TO MECHA AZG-1 Z3
CD-L
A-GND
CD-R
CD ON
B-GND
VM
CN604
TUNER C.B
A-GND
BEAT
TM-BASE
PLL-CE
DATA
CLK
TUNE/IFC
STEREO
TU-ON
TU-L
A-GND
TU-R
TUNER VM
IC451 BU4551BF SELECTOR
Q201, 202 MUTE SW
Q101, 102 MUTE SW
Q127 A1235 MUTE DRIVER
Q126 2SA1235F HOLD DRIVER
Q215 2SD1933 AMP
Q216 2SD1933 AMP
Q217 2SB1342
Q218 2SB1342
Q115 FN1016 AMP
Q116 FN1016 AMP
Q117 FP1016
Q118 FP1016
Q123, 124 OVER CURRENT DET
J204 SUR HI-FREQ
J201 PHONES
J203 LOW-FREQ
CN091 FAN
Q091 C3052
Q092 KTA1266
D001 GBU4DL
FROM C PS C.B CN001
WH001
FIL-1
FIL-2
AC-L
GND
AC-L
RELAY
STBY
+VH
-VH
Q004 2SB1370 E
Q004, 005, 006 VM REG
Q009 2SC4115 S RS
VCC SW
Q008 A1235
POWER SW
Q063, 064 DC DET
Q065, 066 AC DET
HOLD SW
Q061 MC2836
Q062 MC2836
Q001 Q002 KTA1266 GR X2
Q061 KTIP141C
Q062 SA1235F
SIGNAL:
PB

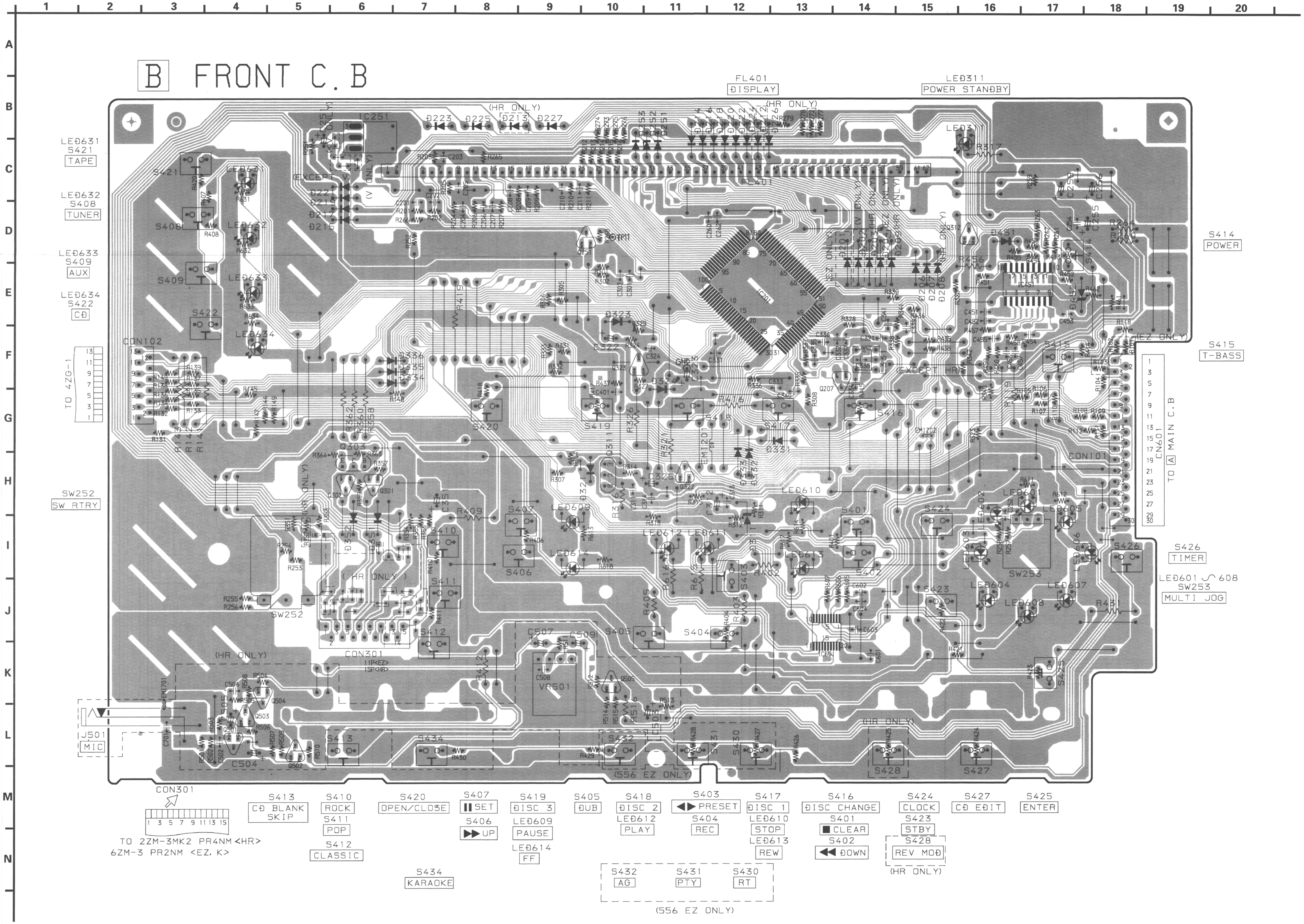
WIRING – 1 (MAIN : HR)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
A MAIN C.B
TO D TUNER C.B
CN701
TO 4ZG-1
CN602
CN604
FROM TAPE DECK MECHANISM
2ZM-3MK2 PR4NM
FROM G HEAD-2 C.B
CON351
CN351
FROM F HEAD-1 C.B
CON301
CN301
CN601
CON101
TO B FRONT C.B
J602
VIDEO/AUX
J201
PHONES
CN001
FROM C P.S. C.B
WH1
J204
SURROUND SPEAKERS
SPEAKERS HI-FREQ
J203
SPEAKERS LOW-FREQ
IMP: 4Ω
R
L
+
-
IC601
SFR351
SFR352
CLP302
CLP301
L351
R363
C731
C025
C030
C031
C033
C009
L101
L102
L201
L202
R146
R143
R144
R145
D091
D092
D113
D115
Q004
Q116
Q118
Q115
Q117
Q216
Q218
Q215
Q217

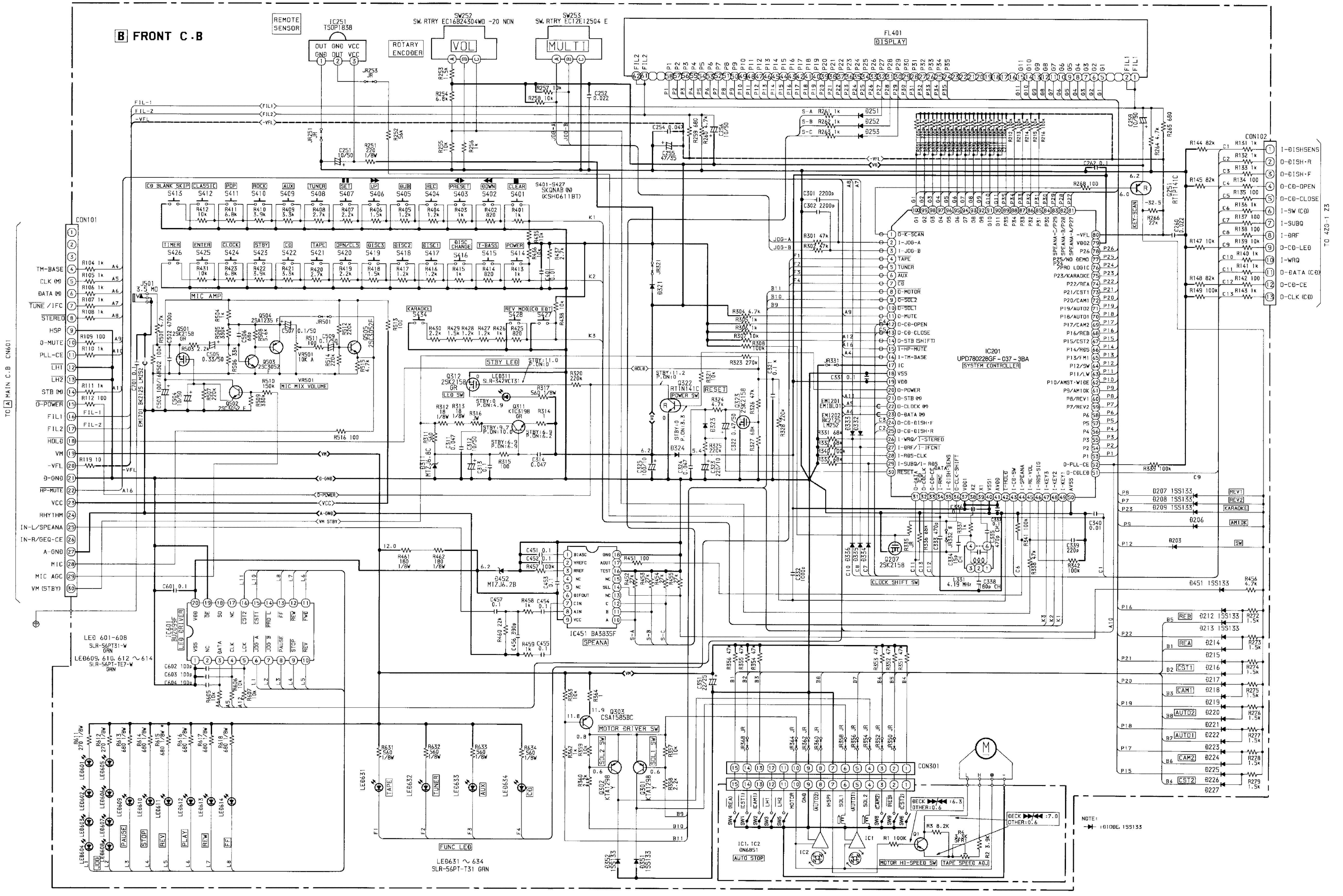
WIRING – 2 (MAIN : EZ, K , V)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
A MAIN C.B
TO D TUNER C.B
CN701
<556EZ ONLY>
TO 4ZG-1
CN602
CN605<556EZ ONLY>
CN604
6ZM-3 PR2NM
DECK 1
FROM F HEAD-1 C.B
CON301
TO CN301
DECK2
RPH
EH
CON351
TO CN351
<556EZ ONLY>
CON101
TO B FRONT C.B
J602
VIDEO/AUX
<K ONLY>
CN001
FROM C P.S. C.B
WH1
J204
SURROUND SPEAKERS
SPEAKERS HI-FREQ
J203
SPEAKERS LOW-FREQ IMP:4Ω
J201
PHONES
C223, 224 <EXCEPT V>

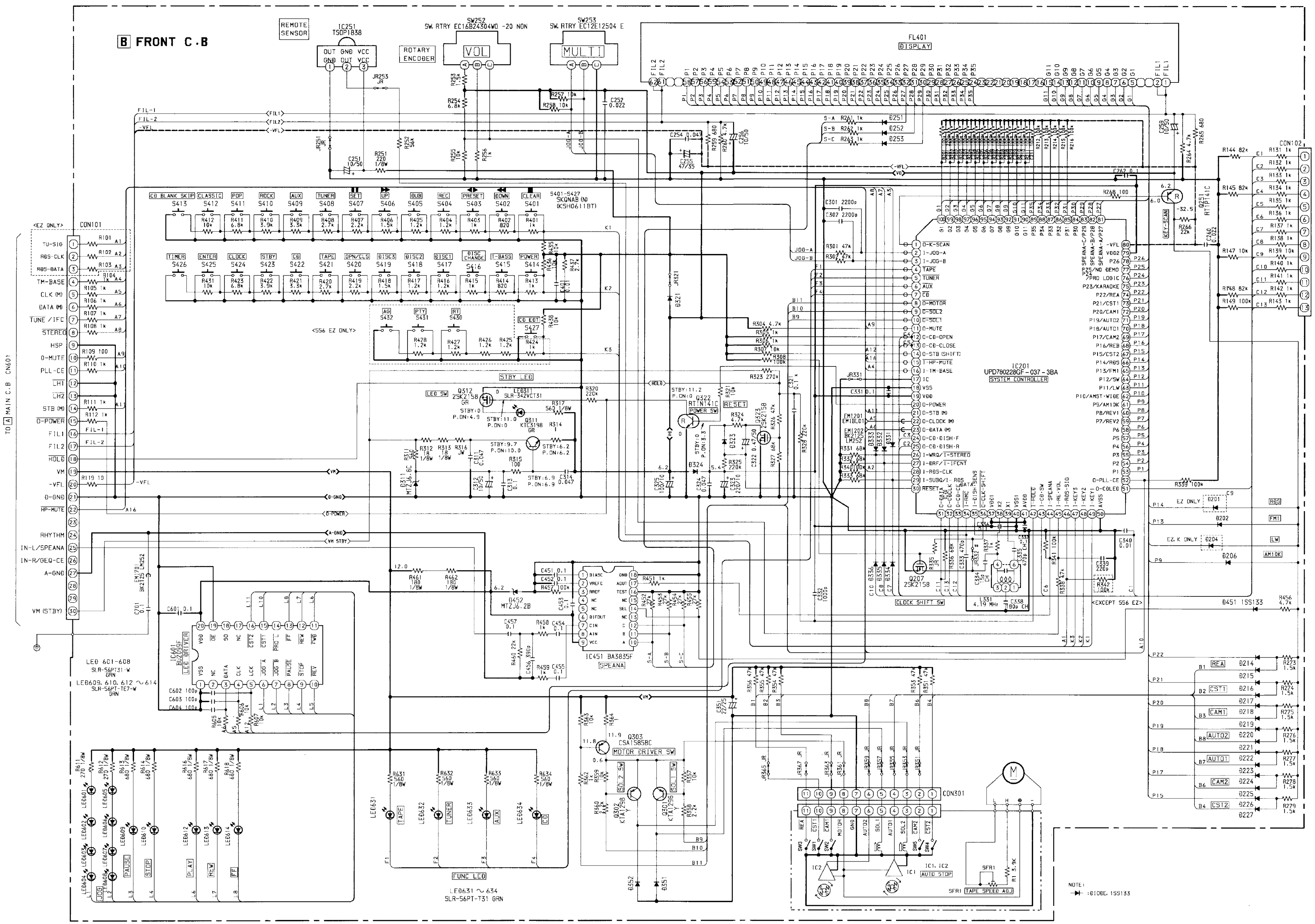

A MAIN C.B(AMP SECTION)
CN601
TO B FRONT C.B CON101
SIG/MS
RDS-CLK
RDS-DATA
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
HSP
D-MUTE
PLL-CE
CH1
CH2
STB
D-POWER
F1
F2
HOLD
VM
-VFL
D-GND
HP-MUTE
NC
I-SPEANA
NC
A-GND
STBY
TO/FROM A MAIN C.B DECK BLOCK
CH1
CH2
HSP
VCC
A-GND
TAPE-L
TAPE-R
B-R
B-L
REC-SEL
PB-SEL
BIAS
BEAT SW
VM
D-GND
TP2 FUNC.OUT
IC601
M62445 FP
FUNCTION SELECTOR/T-BASS/GEQ
VIDEO/AUX
J602
CN602
TO MECHA AZG-1 Z3
CD-L
A-GND
CD-R
CD ON
D-GND
VM
CN605 CN701
16P 16P <556 EZ ONLY>
13P <EXCEPT 556 EZ>
CN604
TUNER C.B
CD D
<556 EZ ONLY>
IC451 BU4551 BF
SELECTOR
Q201, 202
MUTE SW
Q101, 102
MUTE SW
Q127 A1235
MUTE DRIVER
HOLD DRIVER
Q123, 124
Q219, 220
OVER CURRENT DET
Q215 2SD1933
Q216 2SD1933
Q217 2SB1342
Q218 2SB1342
Q119 2SD2025
Q120 2SD2025
Q121 2SB1344
Q122 2SB1344
TH101 100K
TH102 100K
HI-FREQ
PHONES
J201
J203
LOW-FREQ
FROM C PS C.B CN001
FIL-1
FIL-2
AC-L
GND
AC-L
RELAY
STBY
D001 GBU4DL
Q004 2SB1370 E
Q004, 005, 006
VM REG
Q009 2SC4115 S
VCC SW
POWER SW
Q001, Q002 KTA1266 GR X2
Q063, 064
DC DET
Q065, 066
AC DET
HOLD SW
Q061 KTIP141C
Q062 SA1235F
FAN
CN091
<K ONLY>
SIGNAL:
: PB
VOLTAGE WITH NO MARK : EZ
VOLTAGE WITH ( ) MARK : K


B FRONT C.B
FL401
DISPLAY
LED311
POWER STANDBY
LED631
S421
TAPE
LED632
S408
TUNER
LED633
S409
AUX
LED634
S422
CD
TO 4ZG-1
SW252
SW RTRY
J501
MIC
S414
POWER
S415
T-BASS
TO A MAIN C.B
CN601
S426
TIMER
LED601 ∽ 608
SW253
MULTI JOG
CON301
TO 2ZM-3MK2 PR4NM <HR>
6ZM-3 PR2NM <EZ, K>
S413
CD BLANK SKIP
S410
ROCK
S411
POP
S412
CLASSIC
S434
KARAOKE
S420
OPEN/CLOSE
S407
❚❚ SET
S406
▶▶ UP
S419
DISC 3
LED609
PAUSE
LED614
FF
S405
DUB
S418
DISC 2
LED612
PLAY
S403
◀▶ PRESET
S404
REC
S417
DISC 1
LED610
STOP
LED613
REW
S416
DISC CHANGE
S401
■ CLEAR
S402
◀◀ DOWN
S424
CLOCK
S423
STBY
S428
REV MOD
(HR ONLY)
S427
CD EDIT
S425
ENTER
S432
AG
S431
PTY
S430
RT
(556 EZ ONLY)

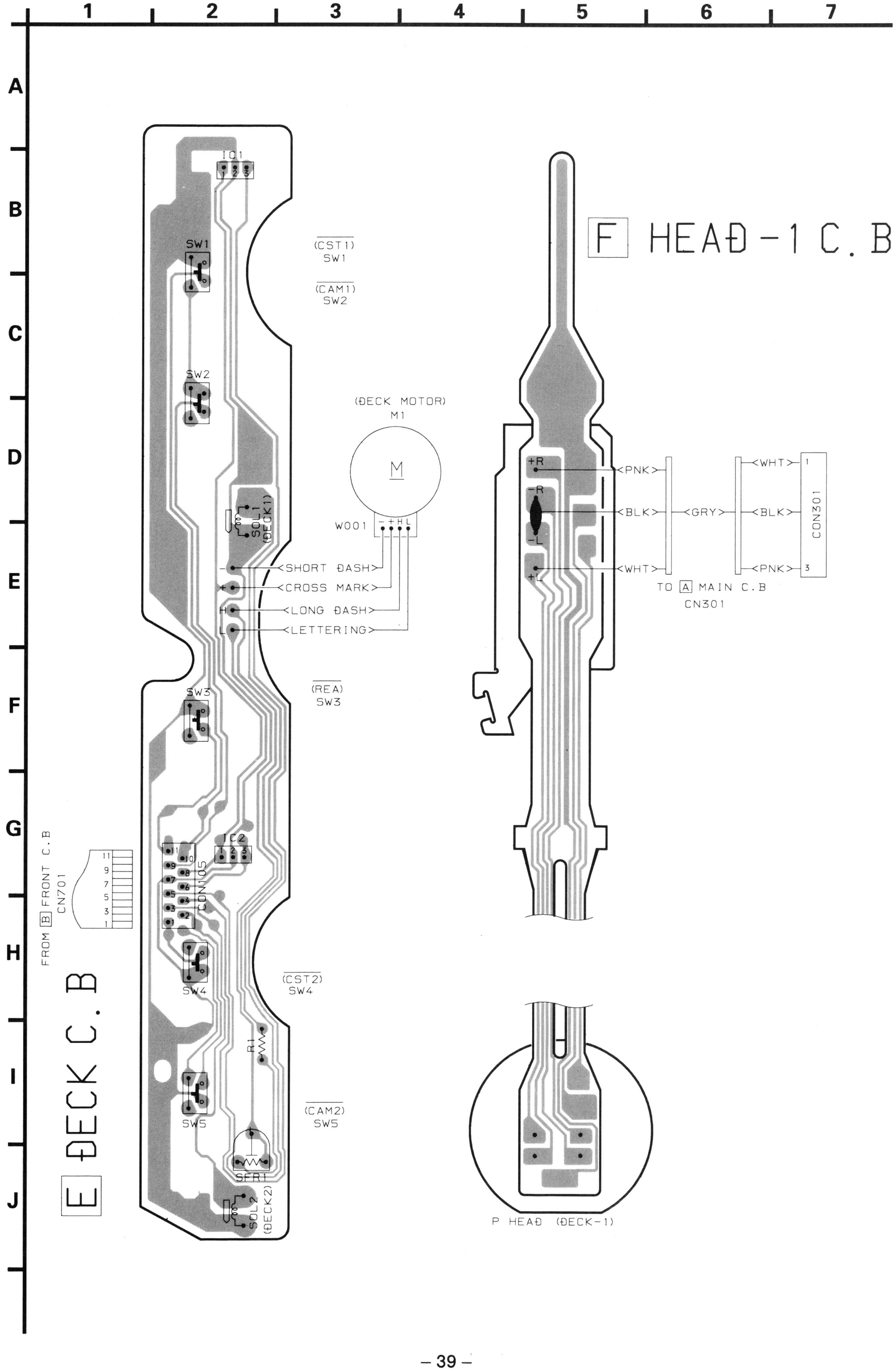
SCHEMATIC DIAGRAM – 3 (FRONT : HR)


B FRONT C.B
REMOTE SENSOR
IC251 TSOP1838
SW252 SW.RTRY EC16B24304W0 -20 NON
SW253 SW.RTRY EC12E12504 E
ROTARY ENCODER
VOL
MULTI
FL401 DISPLAY
CON101
TO A MAIN C.B CN601
CON102
TO 4Z0-1 Z3
IC201 UPD780228GF-037-3BA SYSTEM CONTROLLER
S401~S427 SKQNAB (M) (KSH0611BT)
CD BLANK SKIP
CLASSIC
POP
ROCK
AUX
TUNER
SET
UP
BUB
REC
PRESET
DOWN
CLEAR
TIMER
ENTER
CLOCK
STBY
CD
TAPE
OPN/CLS
DISC3
DISC2
DISC1
DISC CHANGE
T-BASS
POWER
KARAOKE
REV MODE
CD EDIT
MIC AMP
VR501 MIC MIX VOLUME
STBY LED
LED SW
POWER SW
RESET
IC451 BA3835F SPEANA
IC601 BU2099F LED DRIVER
LED 601-608 SLR-56PT31-W GRN
LED609, 610, 612 ~ 614 SLR-56PT-TE7-W GRN
FUNC LED
LED631 ~ 634 SLR-56PT-T31 GRN
Q303 CSA1585BC
MOTOR DRIVER SW
SOL2 SW
SOL1 SW
CON301
CLOCK SHIFT SW
L331 4.19 MHz
IC1, IC2 AN6851
AUTO STOP
MOTOR HI-SPEED SW
TAPE SPEED ADJ
KEY-SCAN
NOTE: :DIODE 1SS133
JOG
PAUSE
STOP
REV
PLAY
REW
FF
TAPE
TUNER
AUX
CD
REV1
REV2
KARAOKE
AMIDX
SW
REB
REA
CST1
CAM1
AUTO2
AUTO1
CAM2
CST2

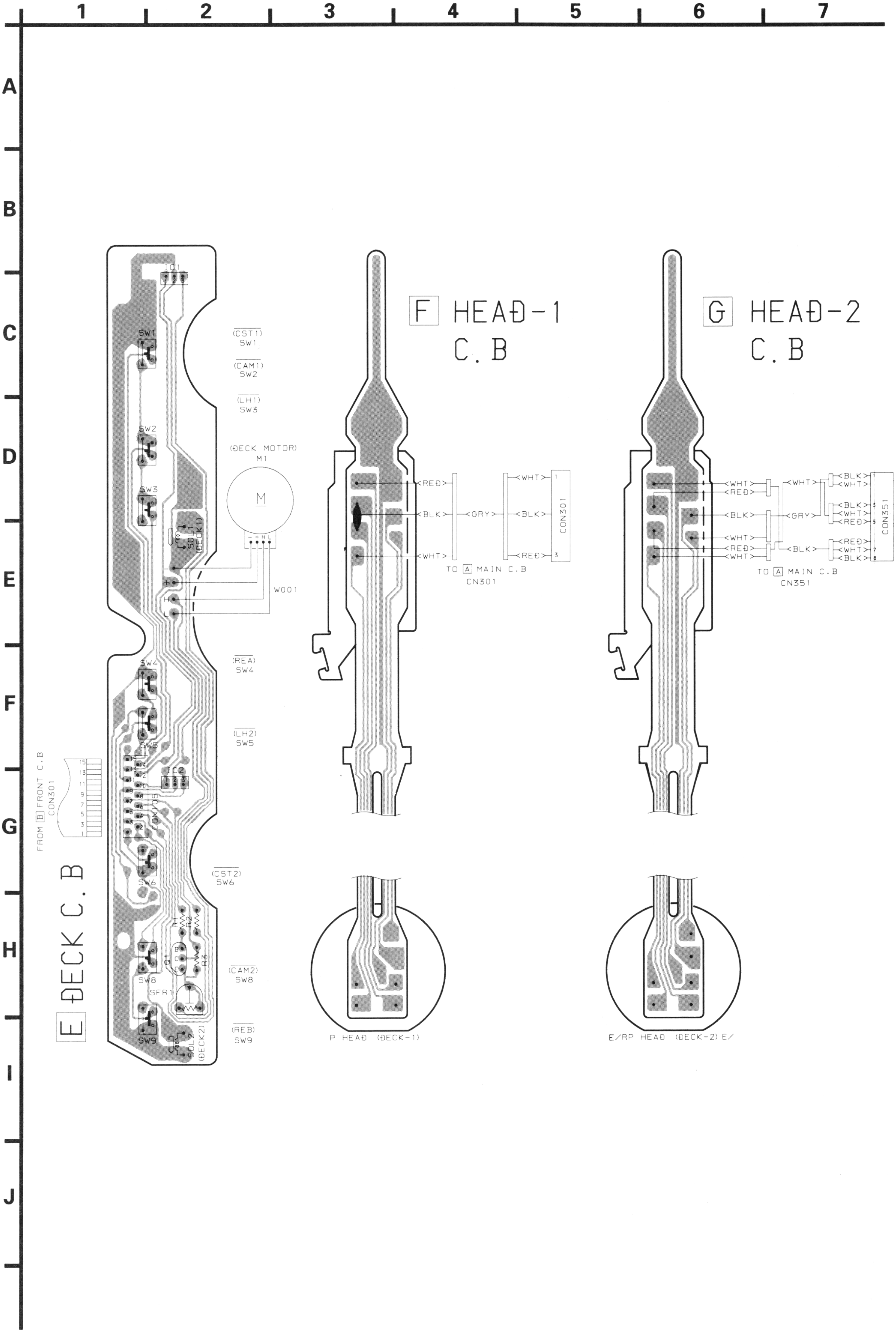
SCHEMATIC DIAGRAM – 4 (FRONT : EZ, K, V)


B FRONT C.B
REMOTE SENSOR
IC251 TSOP1838
OUT GND VCC
ROTARY ENCODER
SW252 SW. RTRY EC16B24304W0 -20 NON
VOL
SW253 SW. RTRY EC12E12504 E
MULTI
FL401 DISPLAY
CON101
<EZ ONLY>
TU-SIO
RDS-CLK
RDS-DATA
TM-BASE
CLK (M)
DATA (M)
TUNE / IFC
STEREO
HSP
O-MUTE
PLL-CE
LH1
LH2
STB (M)
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
D-GND
HP-MUTE
RHYTHM
IN-L/SPEANA
IN-R/GEQ-CE
A-GND
VM (STBY)
TO A MAIN C.B CN601
CD BLANK SKIP
CLASSIC
POP
ROCK
AUX
TUNER
SET
UP
DUB
REC
PRESET
DOWN
CLEAR
S401-S427 SKQNAB (N) (KSH0611BT)
TIMER
ENTER
CLOCK
STBY
CD
TAPE
OPN/CLS
DISC3
DISC2
DISC1
DISC CHANGE
T-BASS
POWER
<S56 EZ ONLY>
AG
PTY
RT
CD EDT
STBY LED
LED SW
Q312 2SK2158
LED311 SLR-342VCT31
Q311 KTC3198
POWER SW
Q322 RT1N141C
RESET
IC201 UPD780228GF-037-3BA SYSTEM CONTROLLER
KEY-SCAN
Q251 RT1P141C
CON102
I-DISHSENS
O-DISH-R
O-DISH-F
O-CD-OPEN
O-CD-CLOSE
I-SW (CD)
I-SUBQ
I-DRF
O-CD-LED
I-WRQ
O-DATA (CD)
O-CD-CE
O-CLK (CD)
TO 4Z0-1 Z3
CLOCK SHIFT SW
Q207 2SK2158
X331 4.19 MHz
IC451 BA3835F SPEANA
IC601 BU2099F LED DRIVER
LED 601-608 SLR-56PT31-W GRN
LED609, 610, 612 ~ 614 SLR-56PT-TE7-W GRN
Q303 CSA1585BC MOTOR DRIVER SW
SOL2 SW
SOL1 SW
Q302 KTA1298
Q301 KTA1298
JOG
PAUSE
STOP
PLAY
REW
FF
TAPE
TUNER
AUX
CD
FUNC LED
LED631 ~ 634 SLR-56PT-T31 GRN
CON301
REA
CST1
CAM1
MOTOR
GND
AUTO2
SOL1
AUTO1
SOL2
CST2
IC1, IC2 AUTO STOP
SFR1 TAPE SPEED ADJ
REA
CST1
CAM1
AUTO2
AUTO1
CAM2
CST2
EZ ONLY
EZ, K ONLY
<EXCEPT S56 EZ>
D451 1SS133
RDS
FM1
LW
AM10K
NOTE: DIODE 1SS133

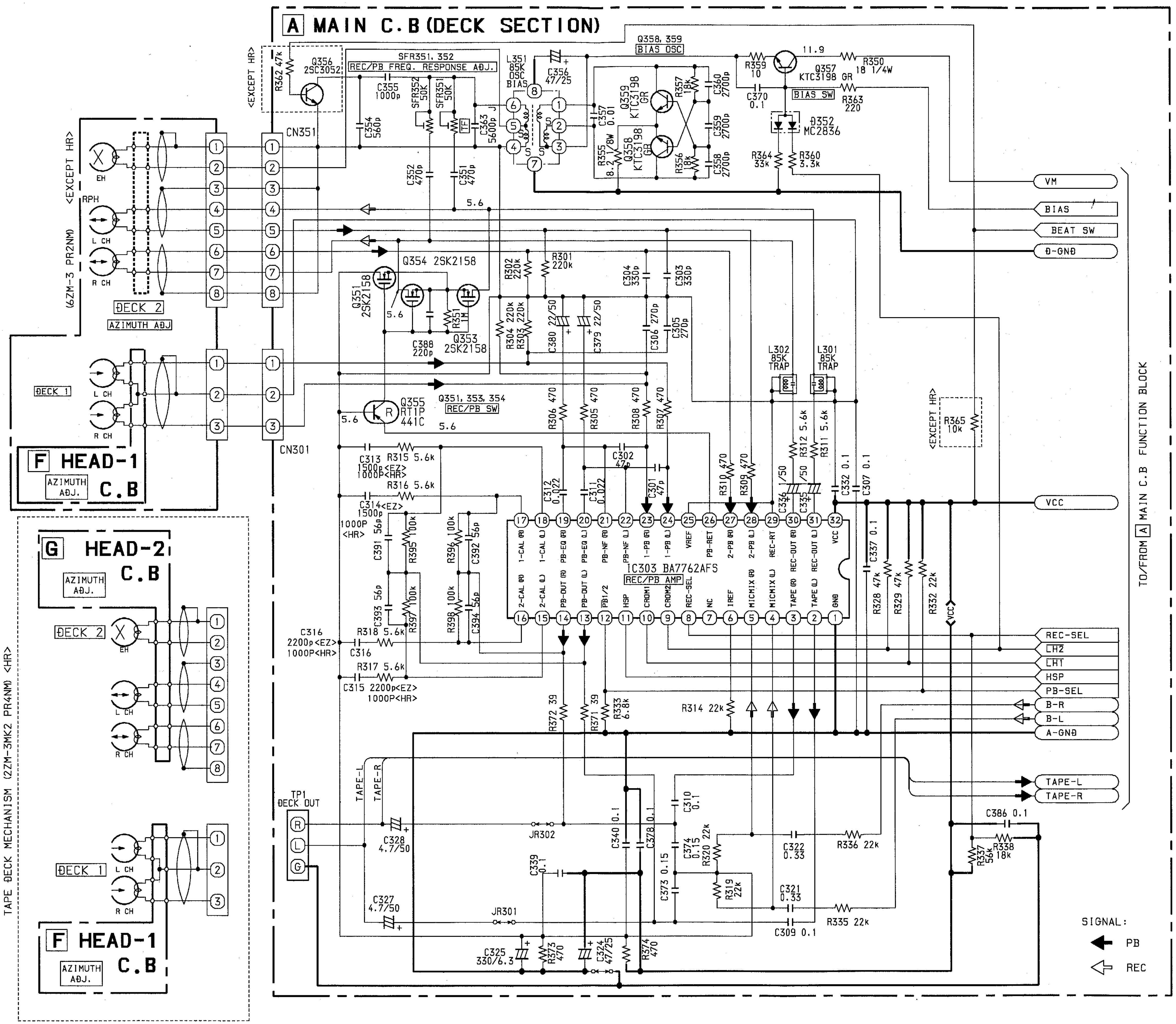
WIRING – 4 (DECK : EZ, K, V)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
IC1
1 2 3
SW1
SW2
SOL1 (DECK1)
(CST1) SW1
(CAM1) SW2
(DECK MOTOR) M1
M
W001
- + H L
-
+
H
L
<SHORT DASH>
<CROSS MARK>
<LONG DASH>
<LETTERING>
(REA) SW3
SW3
IC2
1 2 3
CON105
11 10 9 8 7 6 5 4 3 2 1
FROM B FRONT C.B CN701
11
9
7
5
3
1
SW4
(CST2) SW4
R1
SW5
(CAM2) SW5
SFR1
SOL2 (DECK2)
E DECK C.B
F HEAD-1 C.B
+R
-R
-L
+L
<PNK>
<BLK>
<WHT>
<GRY>
<WHT>
<BLK>
<PNK>
1
3
CON301
TO A MAIN C.B CN301
P HEAD (DECK-1)

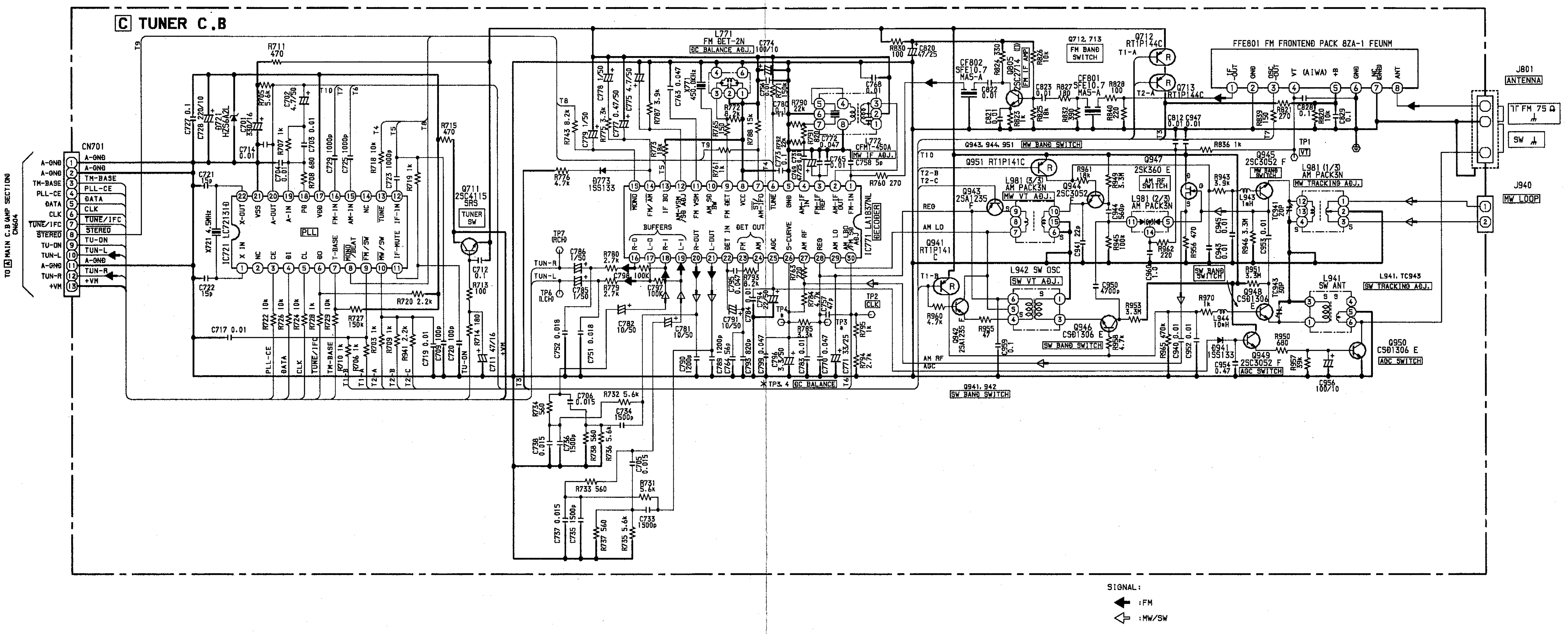
WIRING – 5 (DECK : HR)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
E DECK C.B
IC1
SW1
SW2
SW3
SOL1 (DECK1)
SW4
SW5
IC2
CON705
SW6
SW8
SW9
SFR1
SOL2 (DECK2)
Q1
R1
R2
R3
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(DECK MOTOR) M1
M
W001
(REA) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB) SW9
FROM B FRONT C.B CON301
F HEAD-1 C.B
<RED>
<BLK>
<WHT>
<GRY>
<WHT>
<BLK>
<RED>
CON301
TO A MAIN C.B CN301
P HEAD (DECK-1)
G HEAD-2 C.B
<WHT>
<RED>
<BLK>
<WHT>
<RED>
<WHT>
<WHT>
<GRY>
<BLK>
<BLK>
<WHT>
<BLK>
<WHT>
<RED>
<RED>
<WHT>
<BLK>
CON351
TO A MAIN C.B CN351
E/RP HEAD (DECK-2) E/

SCHEMATIC DIAGRAM – 5 (DECK)

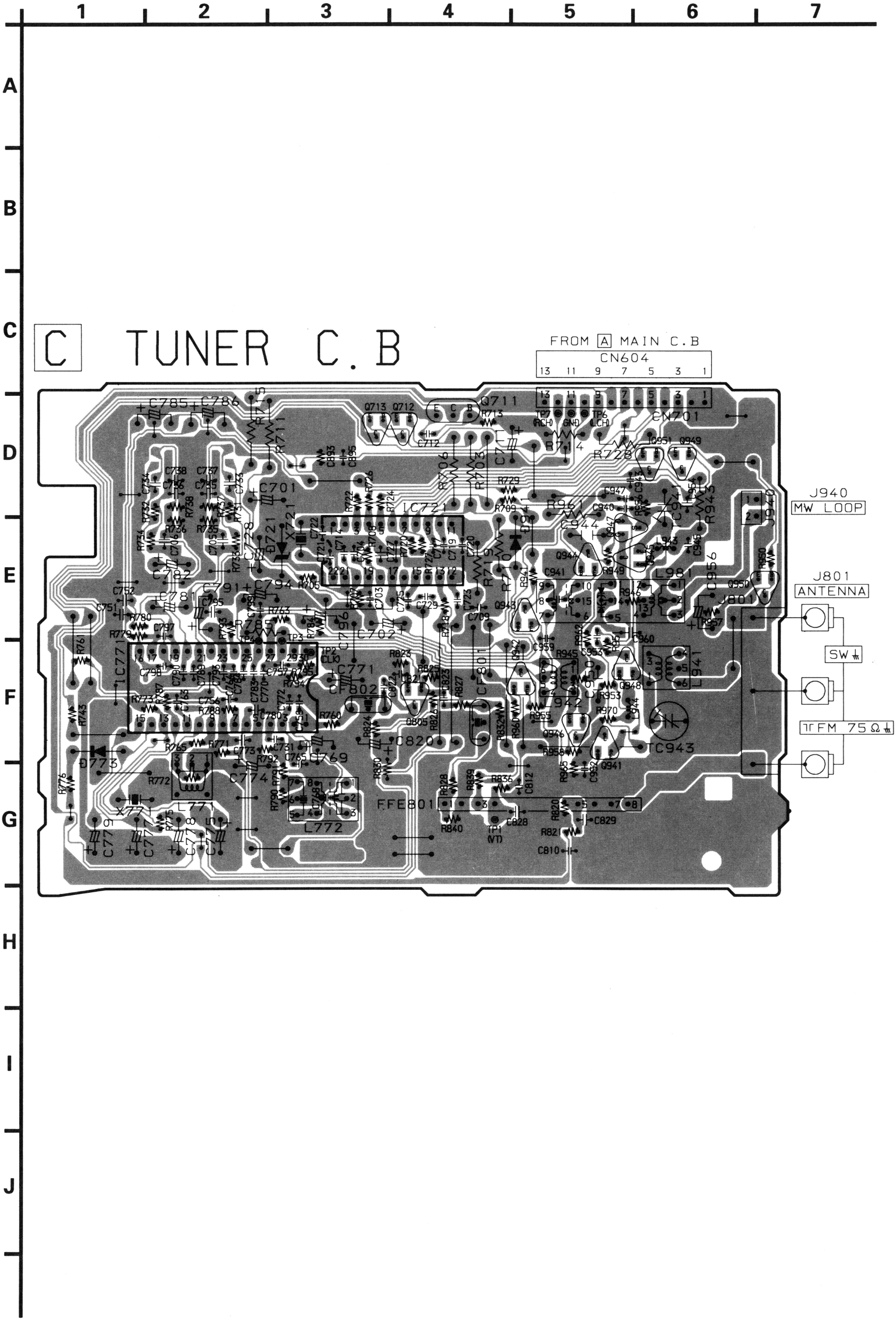

A MAIN C.B (DECK SECTION)
Q358, 359
BIAS OSC
SFR351, 352
REC/PB FREQ. RESPONSE ADJ.
Q356 2SC3052
R362 47k
<EXCEPT HR>
C355 1000p
C354 560p
SFR352 50K
SFR351 50K
C363 5600p
L351 85K OSC BIAS
C356 47/25
C357 0.01
Q359 KTC3198 GR
Q358 KTC3198 GR
R357 18k
R356 18k
R355 8.2 1/8W
C360 2700p
C359 2700p
C358 2700p
R359 10
C370 0.1
Q357 KTC3198 GR
R350 18 1/4W
11.9
BIAS SW
R363 220
D352 MC2836
R364 33k
R360 3.3k
CN351
C352 470p
C351 470p
5.6
Q354 2SK2158
Q351 2SK2158
Q353 2SK2158
R351 1M
C388 220p
R302 220k
R301 220k
R304 220k
R303 220k
C380 22/50
C379 22/50
C304 330p
C303 330p
C306 270p
C305 270p
L302 85K TRAP
L301 85K TRAP
Q355 RT1P 441C
Q351, 353, 354
REC/PB SW
R306 470
R305 470
R308 470
R307 470
R312 5.6k
R311 5.6k
R365 10k
CN301
C313 R315 5.6k
1500p<EZ>
1000P<HR>
R316 5.6k
C314<EZ> 1500p
1000P <HR>
C312 0.022
C311 0.022
C302 47p
C301 47p
R310 470
R309 470
C336 1/50
C335 1/50
C332 0.1
C307 0.1
C391 56p
R395 100k
R396 100k
C392 56p
C393 56p
R397 100k
R398 100k
C394 56p
IC303 BA7762AFS
REC/PB AMP
1-CAL (R)
1-CAL (L)
PB-EQ (R)
PB-EQ (L)
PB-NF (R)
PB-NF (L)
1-PB (R)
1-PB (L)
VREF
PB-RET
2-PB (R)
2-PB (L)
REC-RT
REC-OUT (R)
REC-OUT (L)
VCC
2-CAL (R)
2-CAL (L)
PB-OUT (R)
PB-OUT (L)
PB1/2
HSP
CROM1
CROM2
REC-SEL
NC
IREF
MICMIX (R)
MICMIX (L)
TAPE (R)
TAPE (L)
GND
C337 0.1
R328 47k
R329 47k
R332 22k
VCC
C316 2200p<EZ> 1000P<HR>
R318 5.6k
C316
R317 5.6k
C315 2200p<EZ> 1000P<HR>
R372 39
R371 39
R333 6.8k
R314 22k
VM
BIAS
BEAT SW
D-GND
VCC
REC-SEL
CH2
CH1
HSP
PB-SEL
B-R
B-L
A-GND
TAPE-L
TAPE-R
TO/FROM A MAIN C.B FUNCTION BLOCK
TP1 DECK OUT
TAPE-L
TAPE-R
C328 4.7/50
C327 4.7/50
JR302
JR301
C340 0.1
C378 0.1
C339 0.1
C310 0.1
C374 0.15
C373 0.15
R320 22k
R319 22k
C322 0.33
R336 22k
C321 0.33
C309 0.1
R335 22k
C325 330/6.3
R373 470
C324 47/25
R374 470
C386 0.1
R337 56k
R338 18k
SIGNAL:
PB
REC
<EXCEPT HR>
(6ZM-3 PR2NM)
EH
RPH
L CH
R CH
DECK 2
AZIMUTH ADJ
DECK 1
F HEAD-1 C.B
AZIMUTH ADJ.
G HEAD-2 C.B
TAPE DECK MECHANISM (2ZM-3MK2 PR4NM) <HR>

SCHEMATIC DIAGRAM – 6 (TUNER : HR)

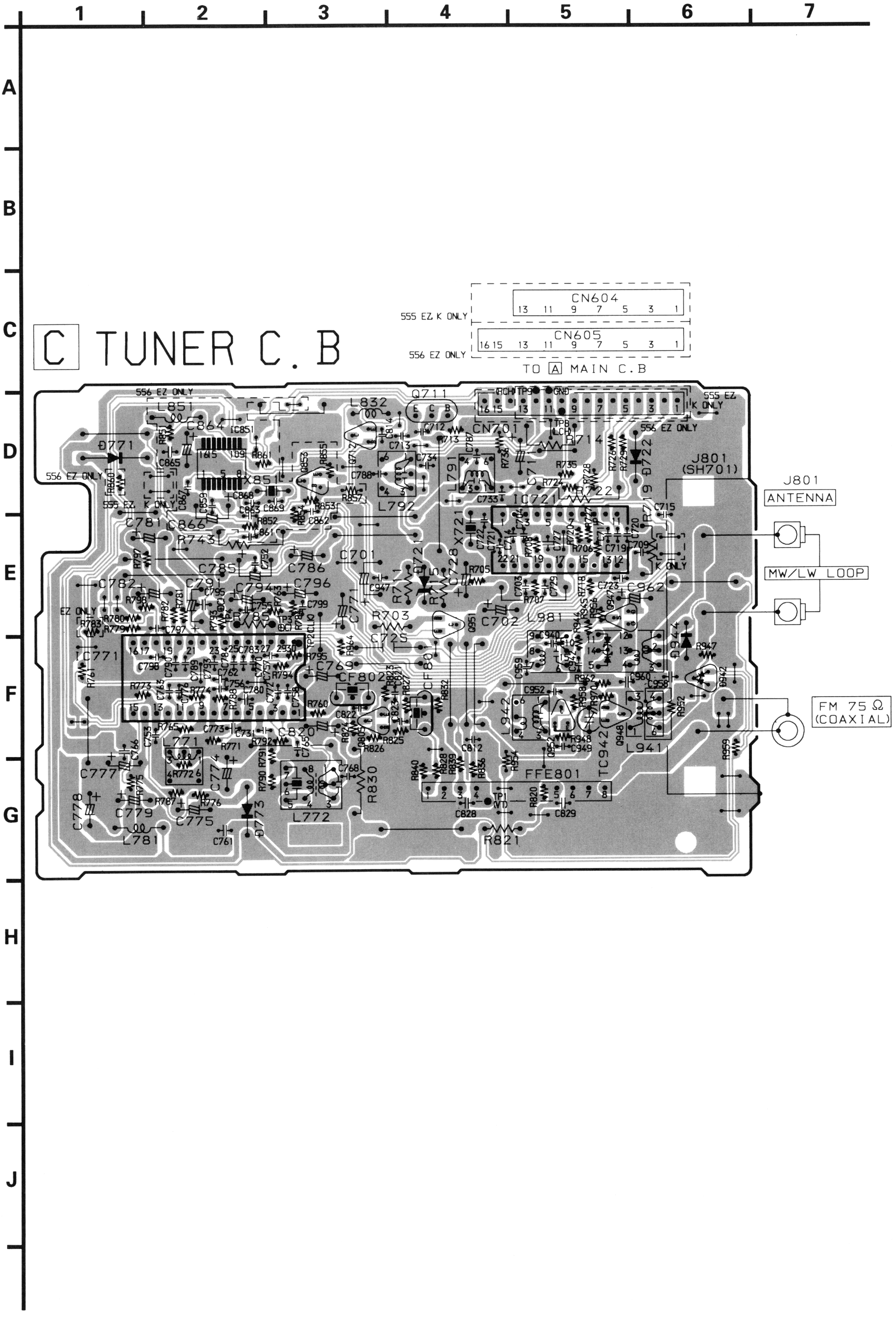


C TUNER C.B
TO A MAIN C.B (AMP SECTION) CN604
CN701
A-GND
A-GND
TM-BASE
PLL-CE
DATA
CLK
TUNE/IFC
STEREO
TU-ON
TUN-L
A-GND
TUN-R
+VM
IC721 LC72131D
PLL
X721 4.5MHz
Q711 2SC4115 SRS
TUNER SW
IC771 LA1837NL
DECODER
BUFFERS
DET OUT
L771 FM DET-2N
DC BALANCE ADJ.
L772 CFMT-450A
MW IF ADJ.
TP1
TP2 CLK
TP3, 4 DC BALANCE
TP6 (LCH)
TP7 (RCH)
CF801 SFE10.7 MA5-A
CF802 SFE10.7 MA5-A
Q805 2SC2714 FM IF AMP
Q712, 713 FM BAND SWITCH
Q712 RT1P144C
Q713 RT1P144C
FFE801 FM FRONTEND PACK 8ZA-1 FEUNM
J801 ANTENNA
FM 75 Ω
SW
J940 MW LOOP
Q943, 944, 951 MW BAND SWITCH
Q951 RT1P141C
Q943 2SA1235
Q944 2SC3052
L981 (3/3) AM PACK3N
MW VT ADJ.
Q947 2SK360 E
AM RF SWITCH
L981 (2/3) AM PACK3N
Q945 2SC3052 F
MW BAND SWITCH
L981 (1/3) AM PACK3N
MW TRACKING ADJ.
Q941 RT1P141
L942 SW OSC
SW VT ADJ.
Q942 2SA1235
Q946 CS01306 E
SW BAND SWITCH
Q948 CS01306
SW BAND SWITCH
L941 SW ANT
L941, TC943 SW TRACKING ADJ.
Q949 2SC3052 F
AGC SWITCH
Q950 CS01306 E
AGC SWITCH
D941 1SS133
D773 1SS133
D721 HZS6A2L
Q941, 942 SW BAND SWITCH
SIGNAL:
:FM
:MW/SW

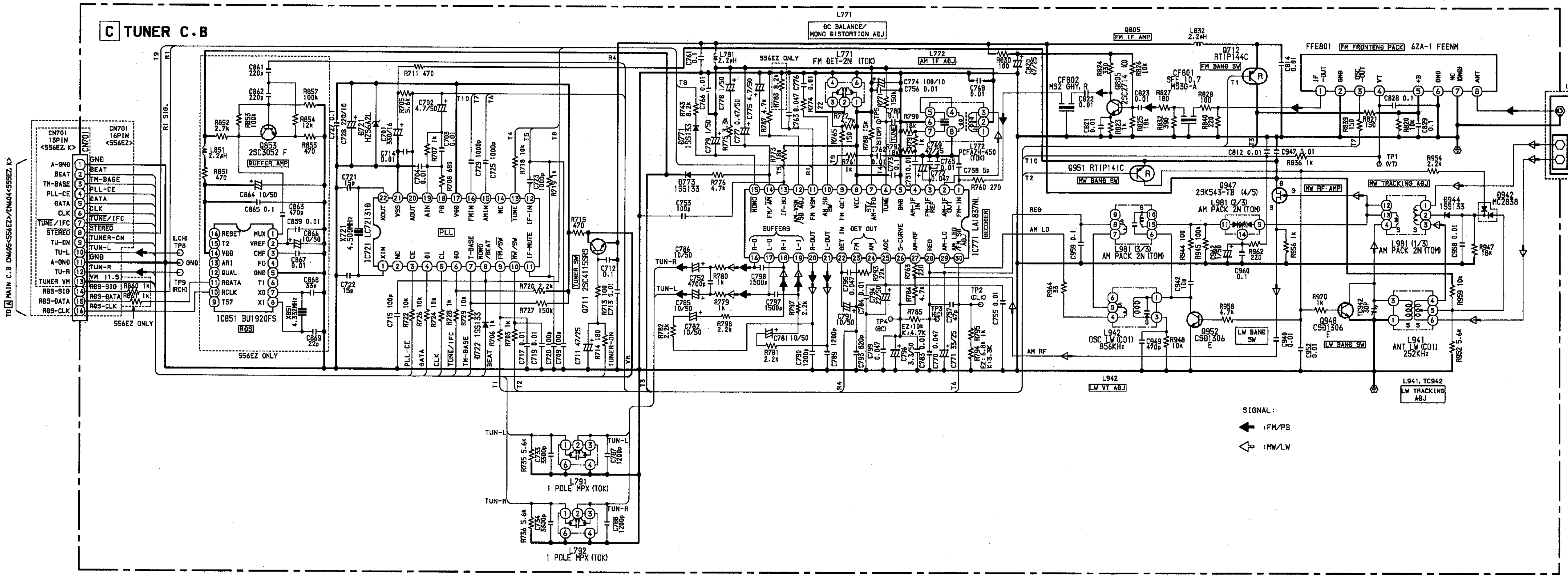
WIRING – 6 (TUNER : HR)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C TUNER C.B
FROM A MAIN C.B
CN604
13 11 9 7 5 3 1
CN701
TP7 (RCH)
GND
TP6 (LCH)
Q711
Q713
Q712
Q951
Q949
IC721
IC771
J940
MW LOOP
J801
ANTENNA
SW
FM 75Ω
L941
L942
L943
L981
L771
L772
TC943
CF801
CF802
FFE801
D721
D773
X721
X771
TP1 (VT)
TP2 (CLK)
TP3
TP4

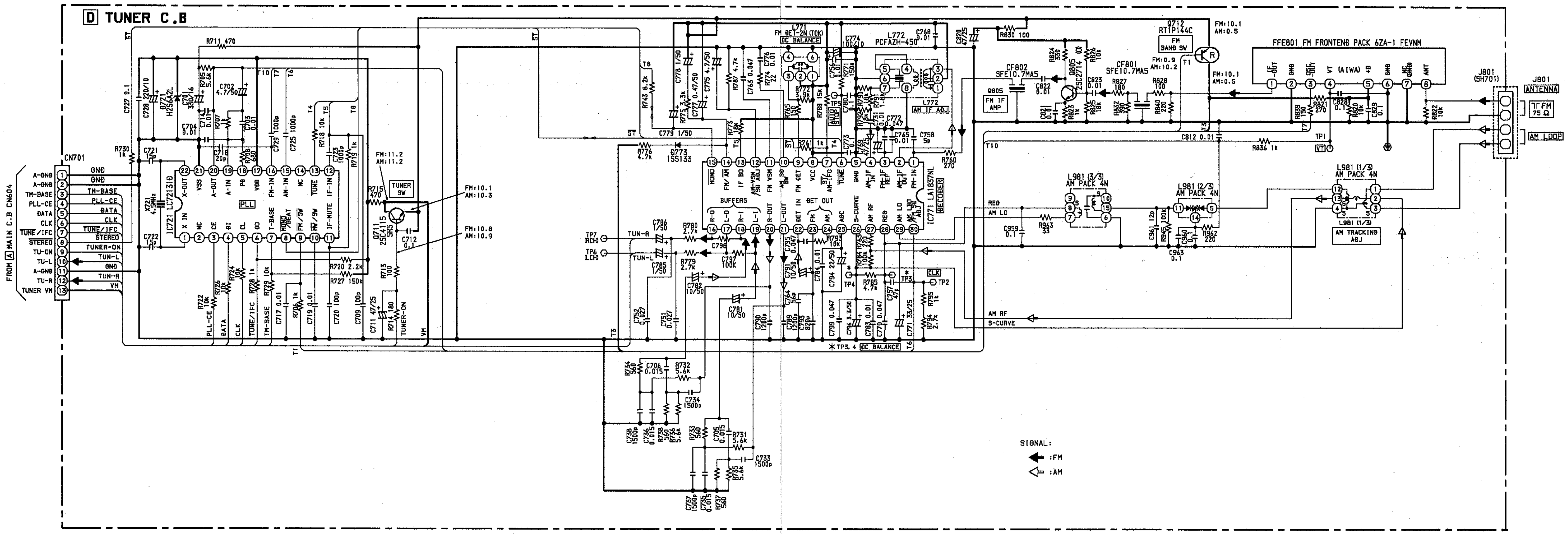
WIRING – 7 (TUNER : EZ, K)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C TUNER C. B
CN604
13 11 9 7 5 3 1
555 EZ, K ONLY
CN605
16 15 13 11 9 7 5 3 1
556 EZ ONLY
TO A MAIN C.B
556 EZ ONLY
555 EZ K ONLY
CN701
Q711
L832
IC851
X851
D771
L851
IC721
X721
IC771
CF802
CF801
FFE801
TP1 VD
L772
L771
L781
D773
D722
J801 (SH701)
J801
ANTENNA
MW/LW LOOP
FM 75 Ω (COAXIAL)
L941
L942
TC942
L981
L791
L792
D944
K ONLY
EZ ONLY

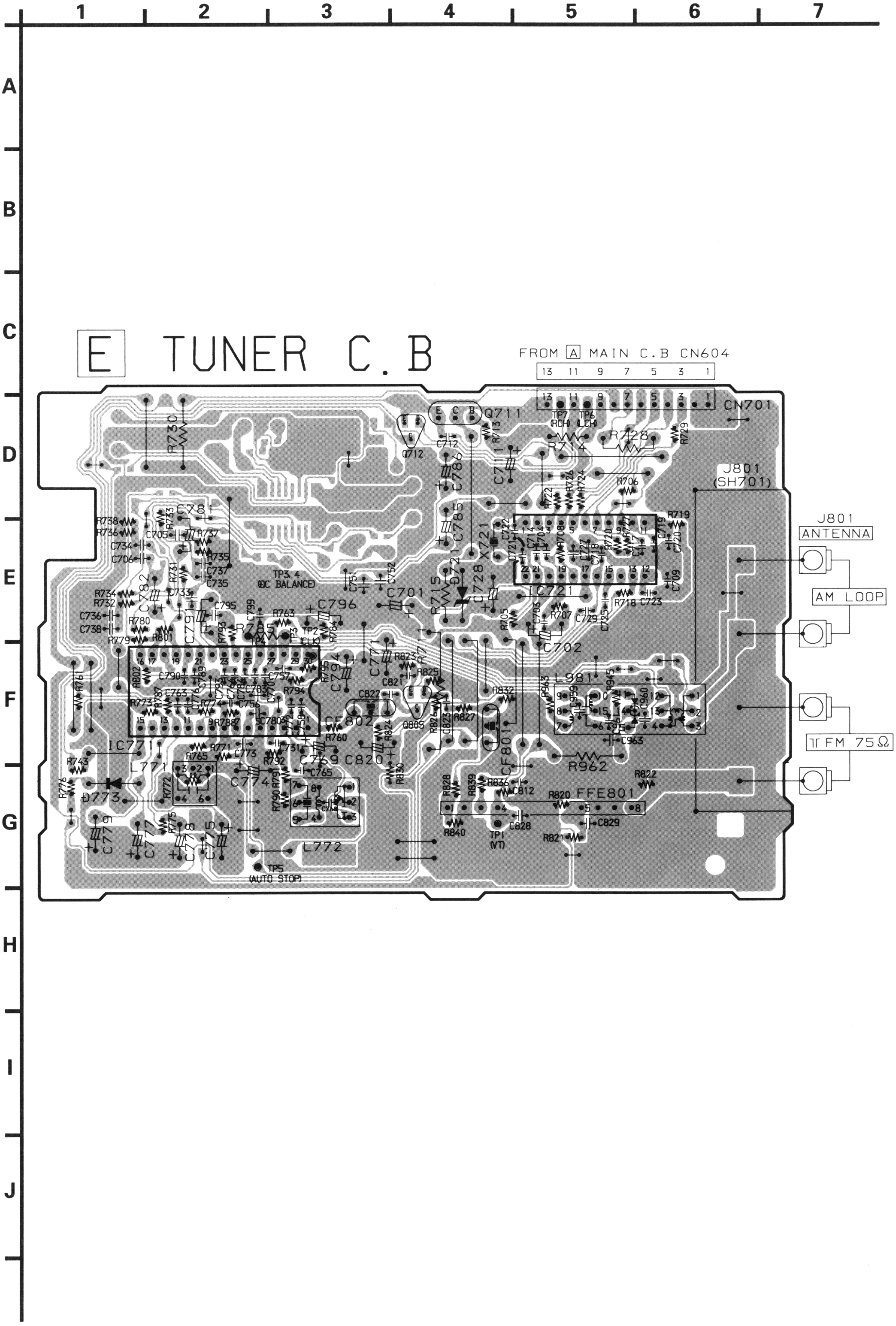
SCHEMATIC DIAGRAM – 7 (TUNER : EZ, K)


C TUNER C.B
TO A MAIN C.B CN605<556EZ>/CN604<556EZ K>
CN701 13PIN <556EZ K>
CN701 16PIN <556EZ>
Q853 2SC3052 F
BUFFER AMP
IC851 BU1920FS
RDS
556EZ ONLY
IC721 LC72131B
PLL
X721 4.500MHz
Q711 2SC4115SRS
TUNER SW
L771 DC BALANCE/ MONO DISTORTION ADJ
L771 FM DET-2N (TOK)
L772 AM IF ADJ
L772 PCFAZU-450 (TOK)
IC771 LA1837NL
DECODER
BUFFERS
DET OUT
Q805 FM IF AMP
2SC2714
Q712 RT1P144C
FM BAND SW
CF801 SFE 10.7 MS3A-A
CF802 MS2 GHY. R
FFE801 FM FRONTEND PACK 6ZA-1 FEENM
Q951 RT1P141C
MW BAND SW
Q947 2SK543-TB (4/5)
MW RF AMP
L981 (2/3) AM PACK 2N (TOM)
L981 (3/3) AM PACK 2N (TOM)
L981 (1/3) AM PACK 2N (TOM)
MW TRACKING ADJ
D944 1SS133
D942 MC2838
Q952 CSB1306
LW BAND SW
L942 OSC LW (CO1) 856KHz
L942 LW VT ADJ
Q948 CSB1306
L941 ANT LW (CO1) 252KHz
L941, TC942 LW TRACKING ADJ
J801 ANTENNA
FM 75Ω (COAXIAL)
MW/LW LOOP
(SH701)
L791 1 POLE MPX (TOK)
L792 1 POLE MPX (TOK)
TUN-L
TUN-R
SIGNAL:
:FM/PB
:MW/LW

SCHEMATIC DIAGRAM – 8 (TUNER : V)

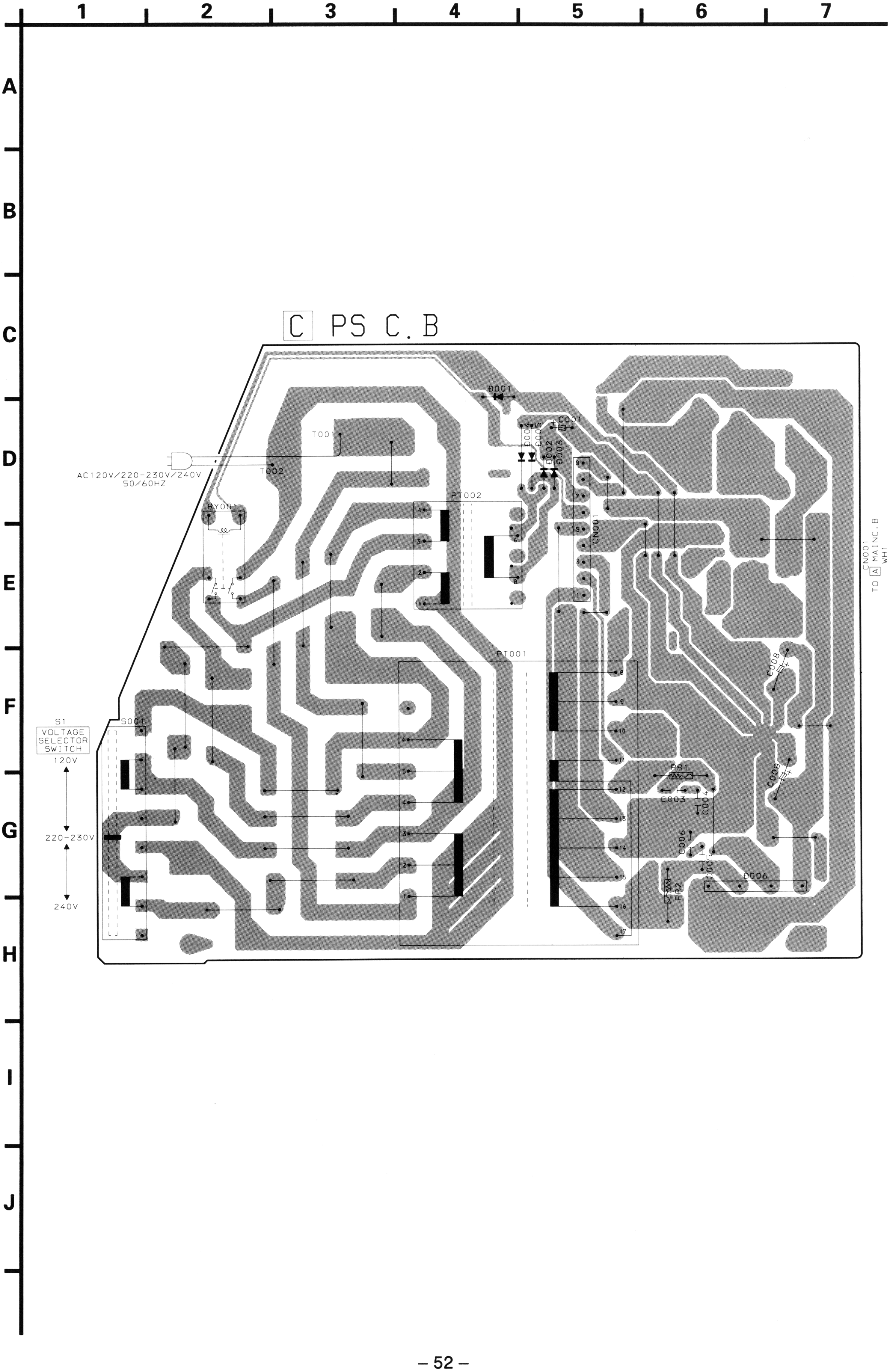

D TUNER C.B
CN701
FROM A MAIN C.B CN604
A-GND
GND
TM-BASE
PLL-CE
DATA
CLK
TUNE/IFC
STEREO
TU-ON
TUNER-ON
TU-L
TUN-L
A-GND
TU-R
TUN-R
TUNER VM
VM
IC721 LC72131D
PLL
X721 4.5MHz
R711 470
R730 1k
C721 15p
C722 15p
C727 0.1
C728 220/10
D721 HZS6A2L
C701 330/16
R705 5.6k
C702 4.7/50
C704 0.01
C714 0.01
R707 10k
C703 0.01
C716 20p
R709 680
C723 1000p
C725 1000p
R718 10k
C713 1000p
R719 1k
R715 470
TUNER SW
Q711 2SC4115 SR5
C712 0.1
FM:11.2
AM:11.2
FM:10.1
AM:10.3
FM:10.8
AM:10.9
R713 100
R714 180
C711 47/25
TUNER-ON
R720 2.2k
R727 150k
R722 10k
R726 10k
R724 10k
R728 1k
R729 10k
R706 1k
C717 0.01
C719 0.01
C720 100p
C709 100p
PLL-CE
DATA
CLK
TUNE/IFC
TM-BASE
X-OUT
VSS
A-OUT
A-IN
PB
VDD
FM-IN
AM-IN
NC
TUNE
IF-IN
X IN
CE
DI
CL
DO
T-BASE
MONO/STEAT
FM/SW
MW/SW
IF-MUTE
T1
T2
T3
T4
T5
T6
T7
T8
T10
ST
TP7 (RCH)
TP6 (LCH)
R776 4.7k
D773 1SS133
R743 8.2k
C778 1/50
R775 3.3k
C777 0.47/50
C775 4.7/50
R787 4.7k
C763 0.047
R774 22k
C776 0.01
R773 10k
R765 150
R788 15k
C779 1/50
C780 0.047
T771 FM DET-2N (TOK)
DC BALANCE
C774 100/10
L772 PCFAZH-450
C768 0.01
L772 AM IF ADJ
C754 0.01
R771 150
R792 6.8k
R793 1.5k
R791 1k
C772 0.047
C765 0.01
C758 5p
R760 270
TP5
AMP STOP
L773
IC771 LA1837NL
DECODER
MONO
FM/AM
IF DO
AM-VSM
FM VSM
AM SD
VCC
AM-IFO
TUNE
GND
AM-IF IN
FM-IF REF
AM-IF OUT
AM MIX
FM-IN
BUFFERS
DET OUT
R-O
L-O
R-I
L-I
R-OUT
L-OUT
DET IN
FM DET
AM
AGC
S-CURVE
AM RF
REG
AM LO
AM OSC
ADJ
C786 1/50
C785 1/50
R780 2.7k
R779 2.7k
C798
C797 100K
C782 10/50
C781 10/50
C752 0.027
C751 0.027
C790 1200p
C792 0.047
C789 1200p
C791 10/50
C784 0.01
C794 22/50
R799 10k
C799 0.047
C796 3.3/50
C783 0.01
C770 0.01
C757 47p
C771 33/25
R784 100k
R783 22k
R785 4.7k
R795 27k
TP4
TP3
TP2
CLK
✱TP3, 4 DC BALANCE
R734 560
C706 0.015
R732 5.6k
C734 1500p
C738 1500p
C736 0.015
R738 560
R736 5.6k
R733 560
C705 0.015
R731 5.6k
C733 1500p
C737 1500p
C735 0.015
R737 560
R735 5.6k
C820 47/25
R830 100
Q712 RT1P144C
FM BAND SW
FM:10.1
AM:0.5
FM:0.9
AM:10.2
FM:10.1
AM:0.5
CF802 SFE10.7MA5
CF801 SFE10.7MA5
Q805 2SC2714 (O)
FM IF AMP
R824 330
R826 10k
C823 0.01
C822 0.01
R827 180
R828 100
C821 0.01
R823 1k
R825 18k
R832 330
R840 220
C812 0.01
R836 1k
FFE801 FM FRONTEND PACK 6ZA-1 FEVNM
IF OUT
GND
OSC OUT
VT
(AIWA)
+B
GND
NC
GND
ANT
R833 150
R821 270
C828 0.1
R820 10k
C829 0.1
R822 10k
TP1
VT
J801 (SH701)
J801 ANTENNA
FM 75 Ω
AM LOOP
L981 (3/3) AM PACK 4N
L981 (2/3) AM PACK 4N
L981 (1/3) AM PACK 4N
L981 (1/3) AM TRACKING ADJ
REG
AM LO
C959 0.1
R963 33
C961 12p
R945 100k
C960
R962 220
C963 0.1
AM RF
S-CURVE
SIGNAL:
:FM
:AM

WIRING – 8 (TUNER : V)



1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
E TUNER C.B
FROM A MAIN C.B CN604
13 11 9 7 5 3 1
CN701
Q711
E C B
Q712
TP7 (RCH)
TP6 (LCH)
R714
R728
R729
R713
C712
C786
C711
R730
J801 (SH701)
J801 ANTENNA
AM LOOP
FM 75Ω
R738
R736
C781
R733
C705
R737
C734
C706
R735
R731
C737
C735
TP3, 4 (DC BALANCE)
C751
C752
C785
X721
C722
C721
C714
C704
R708
R726
R724
R722
R706
R720
R719
C719
C720
C709
C717
C718
IC721
R718
C723
R715
D721
C728
C701
R734
R732
C782
C733
C736
C738
R780
R779
R801
C791
C795
C799
R763
C796
TP2 (CLK)
R784
R785
TP4
R705
C703
R707
C729
C725
C702
R802
C790
C789
C763
R773
R787
C776
R774
C756
C757
R794
R795
C794
C771
R823
R825
C821
C822
CF802
R824
Q805
R826
C823
R827
R832
R963
L981
R945
C959
C960
C963
CF801
R962
R761
IC771
C780
R788
R760
R743
L771
R765
R771
C773
R792
C731
C769
C820
C765
R830
R828
R839
R836
C812
R822
R820
FFE801
R776
D773
R772
C774
R791
R790
C768
R775
C779
C777
C778
C775
L772
TP5 (AUTO STOP)
R840
TP1 (VT)
C828
C829
R821

WIRING – 9 (PS : HR)


1
2
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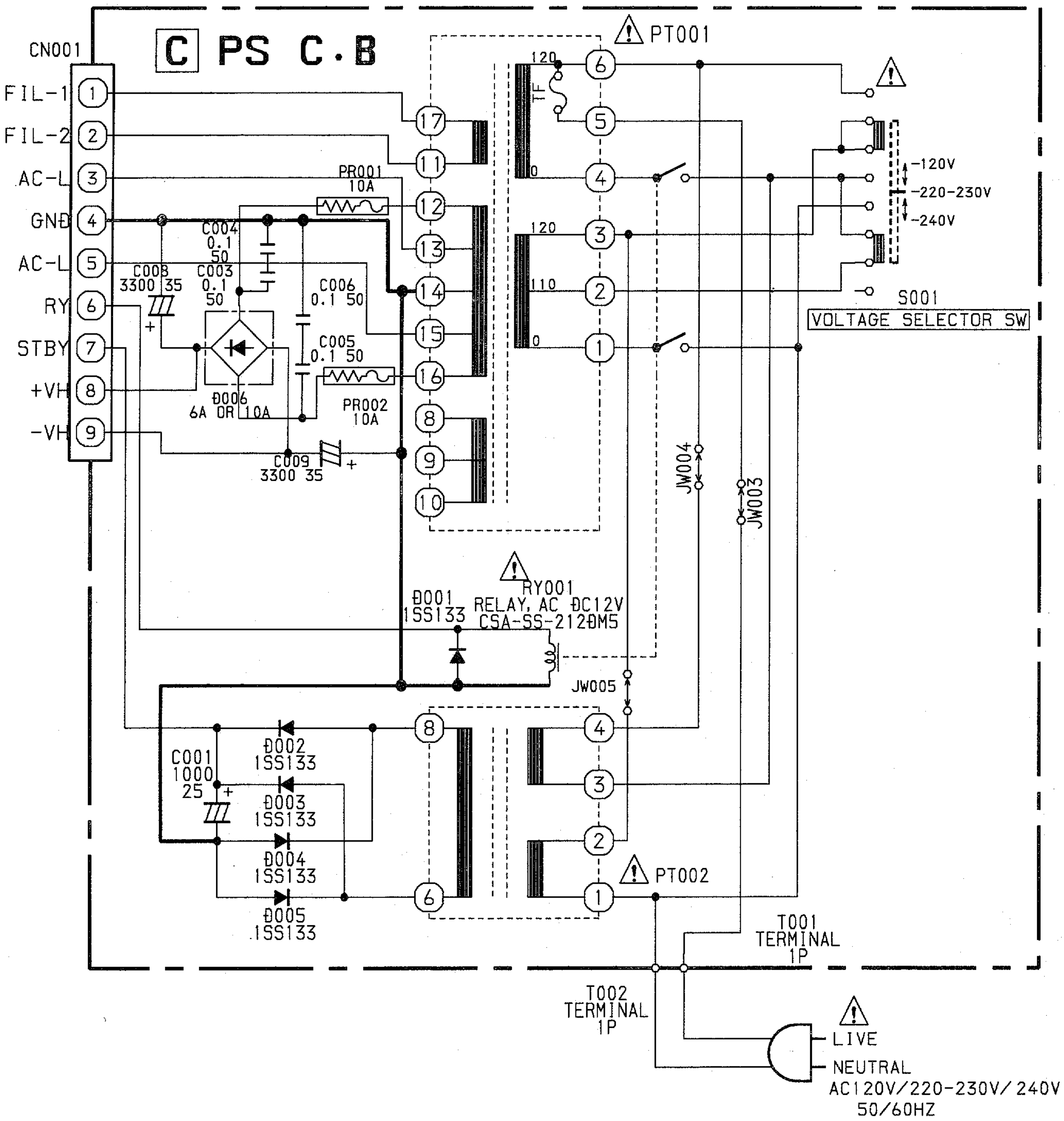
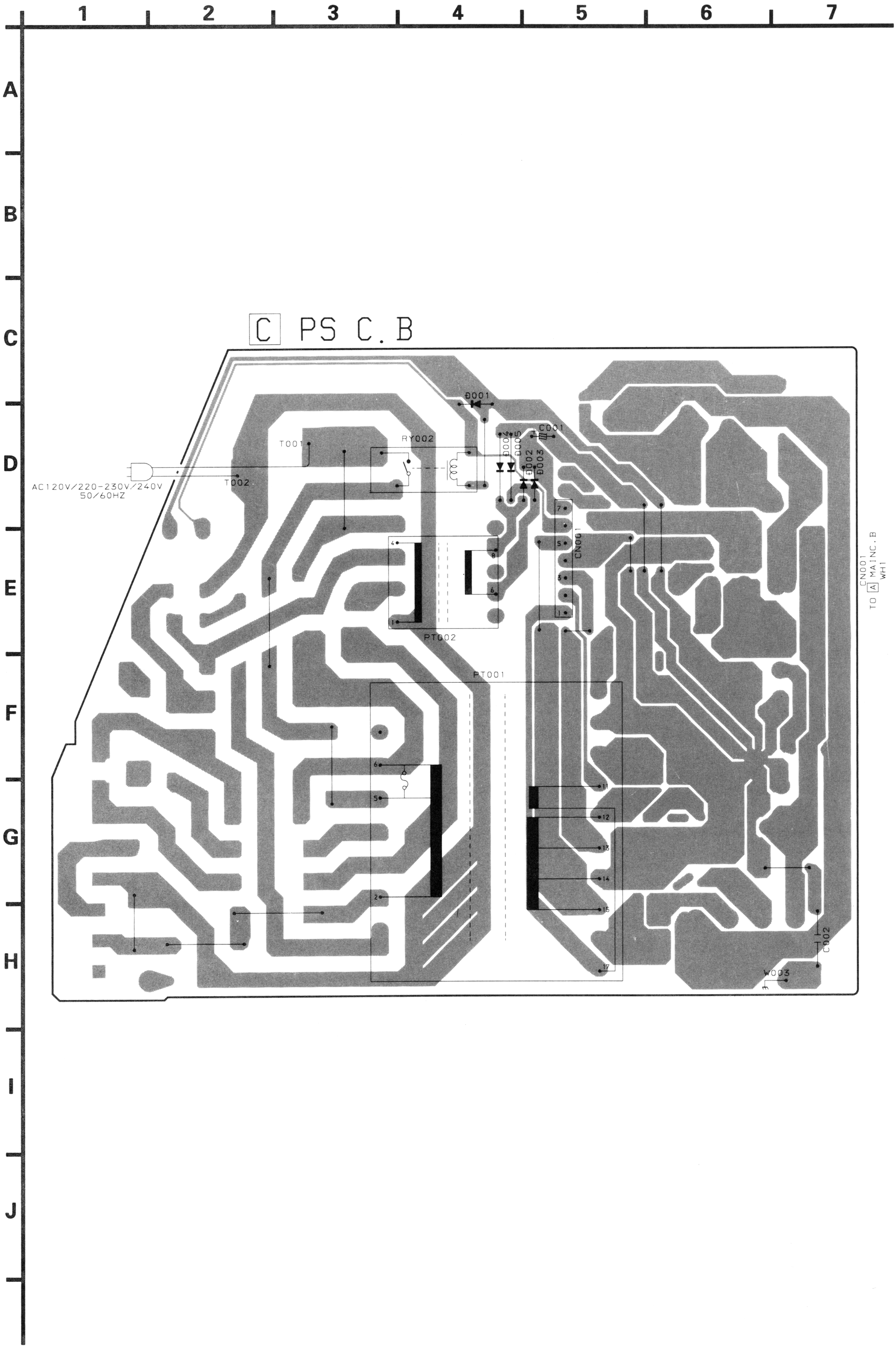
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C PS C.B
D001
C001
D004
D005
D002
D003
T001
T002
AC120V/220-230V/240V
50/60HZ
RY001
PT002
CN001
CN001
TO A MAINC.B
WH1
PT001
S1
VOLTAGE
SELECTOR
SWITCH
S001
120V
220-230V
240V
C008
C009
PR1
C003
C004
C006
C005
PR2
D006

SCHEMATIC DIAGRAM – 9 (PS : HR)

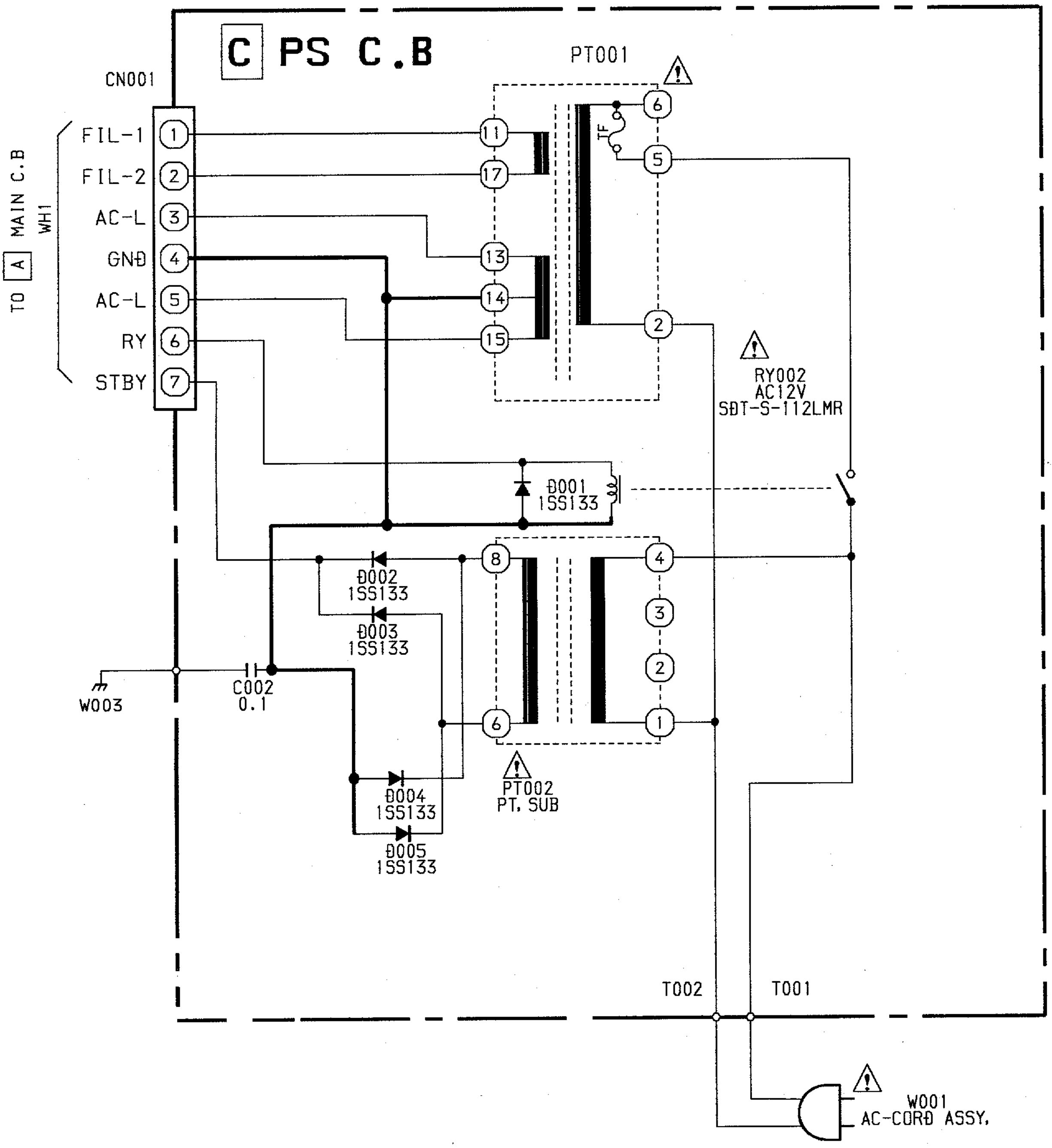


C PS C・B
CN001
FIL-1
FIL-2
AC-L
GND
AC-L
RY
STBY
+VH
-VH
1
2
3
4
5
6
7
8
9
PR001
10A
C004
0.1
50
C008
3300 35
C003
0.1
50
C006
0.1 50
C005
0.1 50
D006
6A OR 10A
PR002
10A
C009
3300 35
17
11
12
13
14
15
16
8
9
10
PT001
120
TF
0
120
110
0
6
5
4
3
2
1
-120V
-220-230V
-240V
S001
VOLTAGE SELECTOR SW
JW004
JW003
RY001
D001
1SS133
RELAY, AC DC12V
CSA-SS-212DM5
JW005
C001
1000
25
D002
1SS133
D003
1SS133
D004
1SS133
D005
1SS133
8
6
4
3
2
1
PT002
T001
TERMINAL
1P
T002
TERMINAL
1P
LIVE
NEUTRAL
AC120V/220-230V/240V
50/60HZ

WIRING – 10 (PS : EZ)

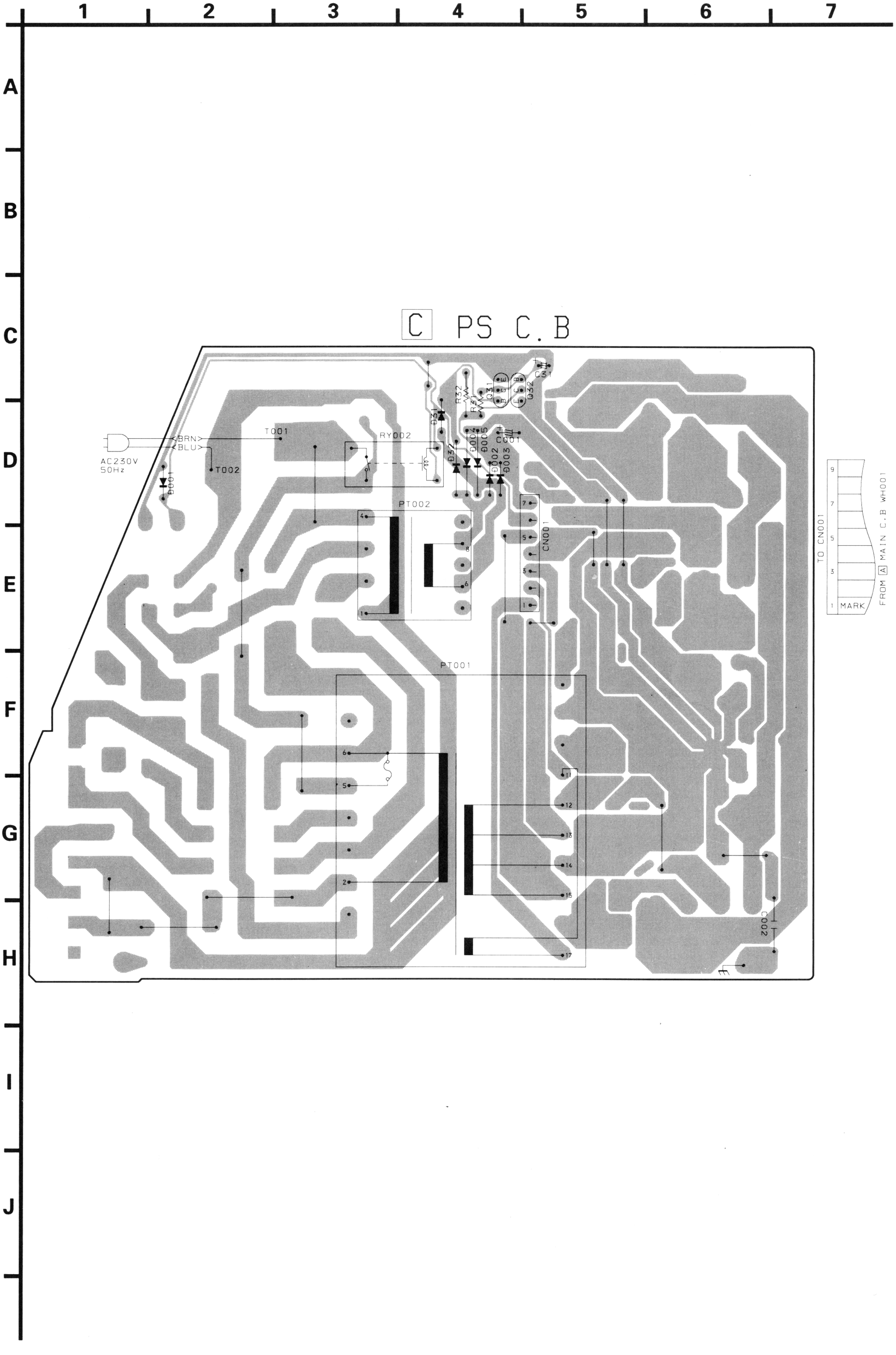

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C PS C.B
D001
RY002
T001
T002
AC120V/220-230V/240V
50/60HZ
D004
D005
D002
D003
C001
CN001
7
5
3
1
4
1
8
6
PT002
PT001
6
5
2
11
12
13
14
15
17
CN001
TO A MAINC.B
WH1
C002
W003

SCHEMATIC DIAGRAM – 10 (PS : EZ)

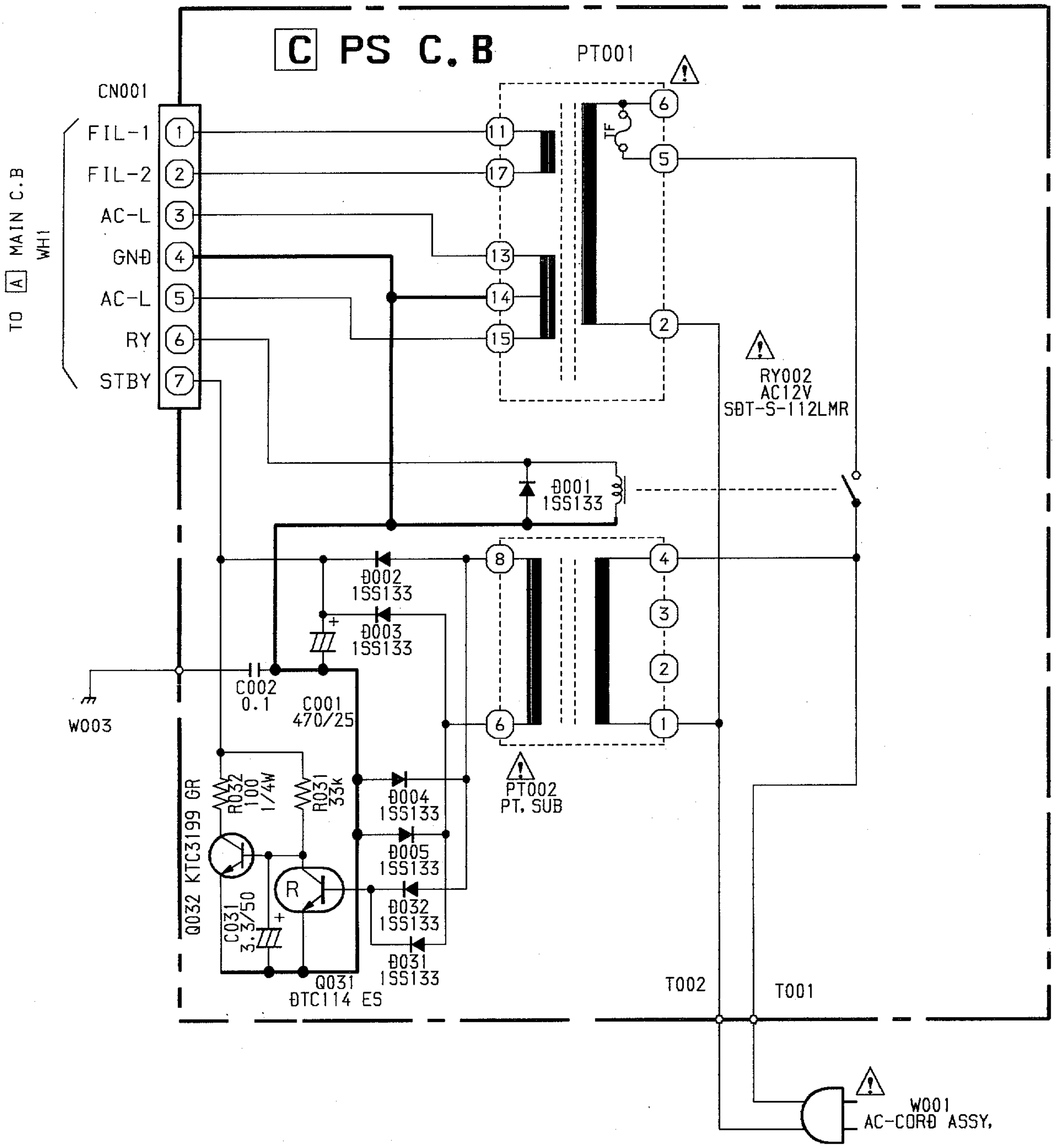


C PS C.B
CN001
TO A MAIN C.B WH1
FIL-1 ①
FIL-2 ②
AC-L ③
GND ④
AC-L ⑤
RY ⑥
STBY ⑦
PT001
TF
RY002
AC12V
SDT-S-112LMR
D001
1SS133
D002
1SS133
D003
1SS133
D004
1SS133
D005
1SS133
C002
0.1
W003
PT002
PT. SUB
T002
T001
W001
AC-CORD ASSY.

WIRING – 11 (PS : K, V)

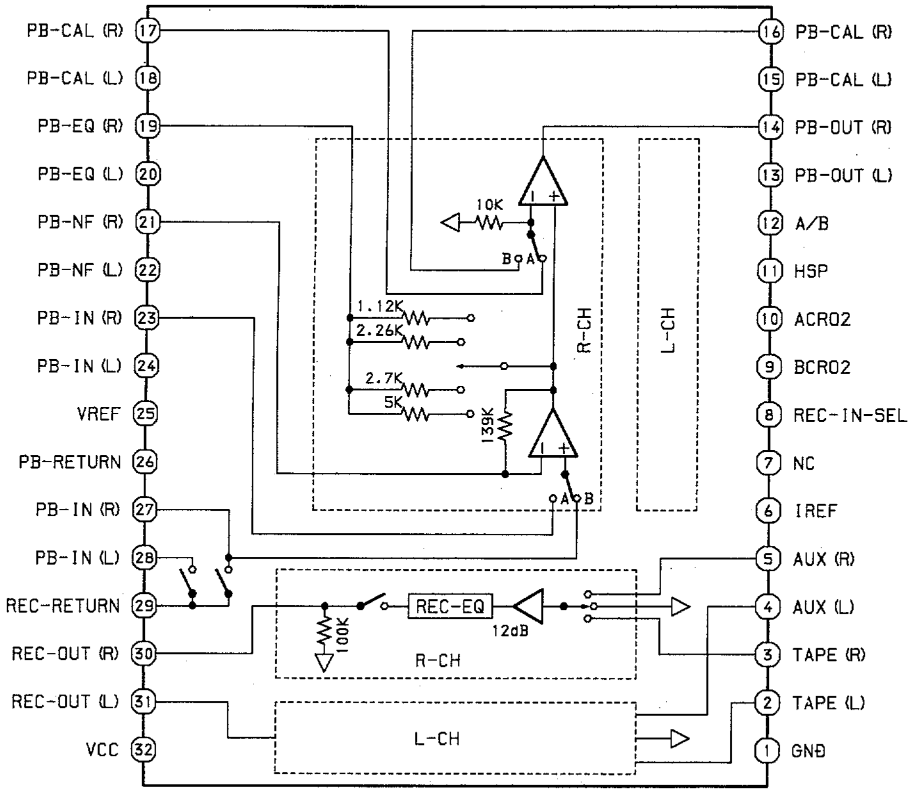

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C PS C.B
AC230V
50Hz
BRN
BLU
T001
T002
D001
RY002
D31
R32
R31
Q31
Q32
E C B
C31
D32
D004
D005
D002
D003
C001
PT002
CN001
PT001
C002
TO CN001
FROM A MAIN C.B WH001
MARK

SCHEMATIC DIAGRAM – 11 (PS : K, V)

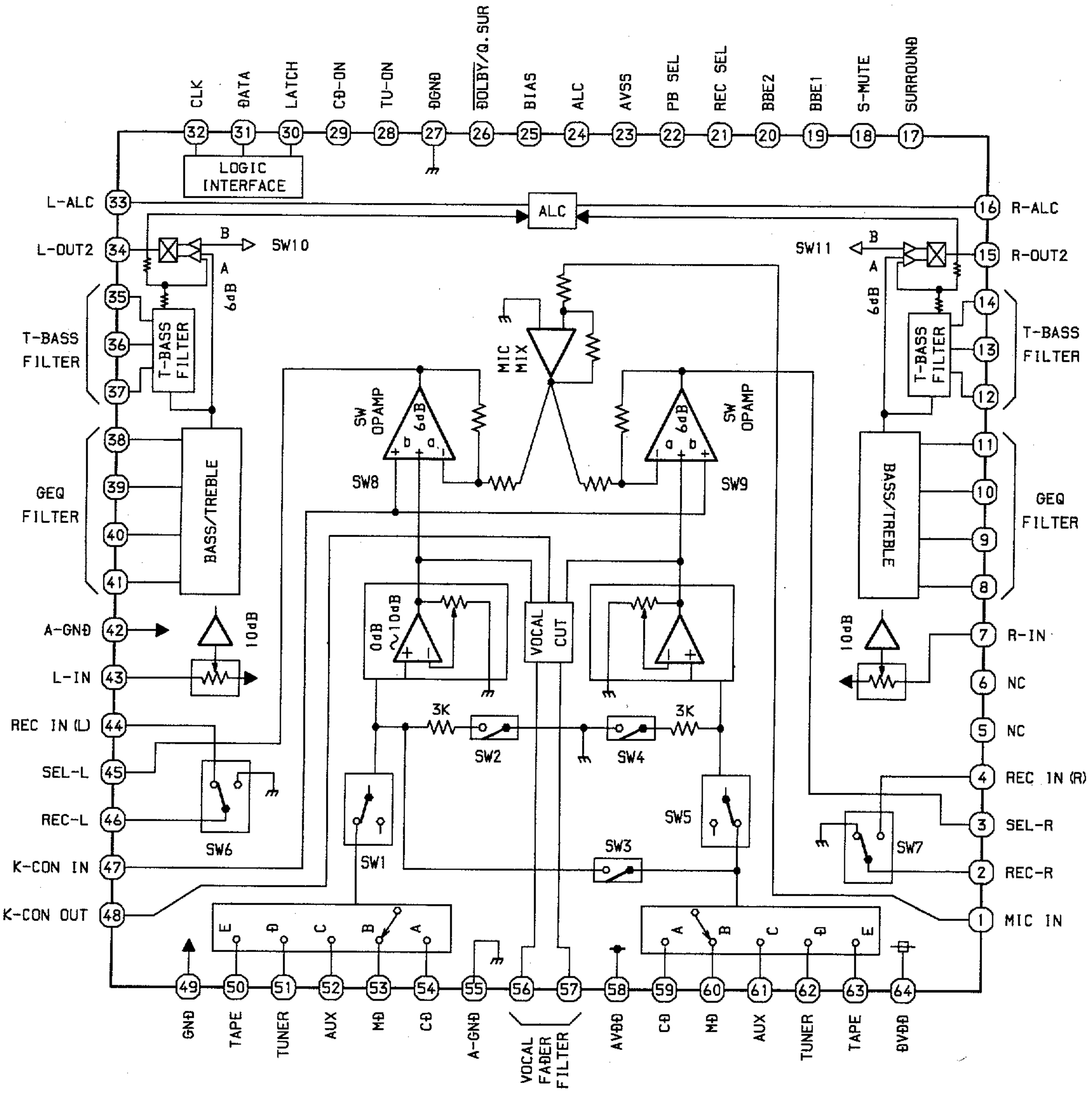

C PS C.B
PT001
CN001
TO A MAIN C.B WH1
FIL-1
FIL-2
AC-L
GND
AC-L
RY
STBY
1
2
3
4
5
6
7
11
17
13
14
15
6
5
2
TF
RY002
AC12V
SDT-S-112LMR
D001
1SS133
D002
1SS133
D003
1SS133
8
4
3
2
1
6
C002
0.1
C001
470/25
W003
PT002
PT. SUB
Q032 KTC3199 GR
R032
100
1/4W
R031
33k
D004
1SS133
D005
1SS133
D032
1SS133
D031
1SS133
C031
3.3/50
R
Q031
DTC114 ES
T002
T001
W001
AC-CORD ASSY.

IC BLOCK DIAGRAM

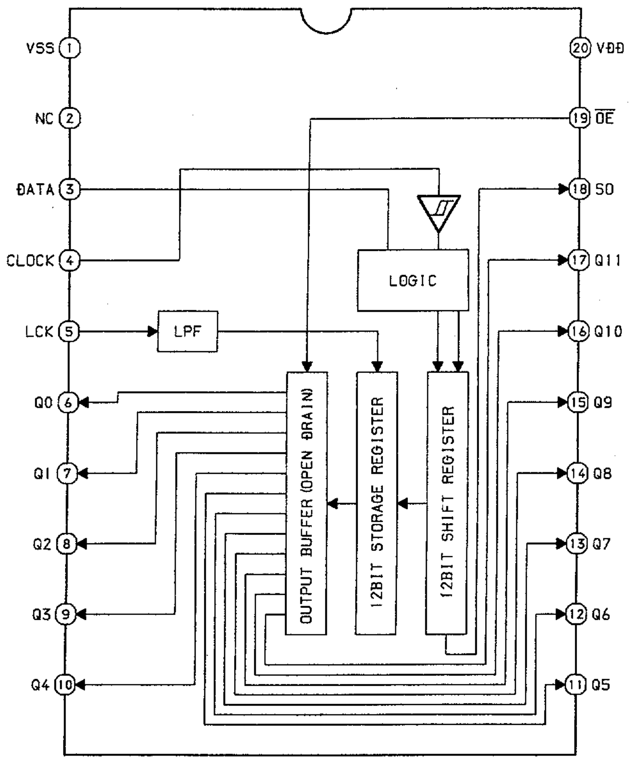
IC, BA7762AFS


PB-CAL (R) 17
PB-CAL (L) 18
PB-EQ (R) 19
PB-EQ (L) 20
PB-NF (R) 21
PB-NF (L) 22
PB-IN (R) 23
PB-IN (L) 24
VREF 25
PB-RETURN 26
PB-IN (R) 27
PB-IN (L) 28
REC-RETURN 29
REC-OUT (R) 30
REC-OUT (L) 31
VCC 32
16 PB-CAL (R)
15 PB-CAL (L)
14 PB-OUT (R)
13 PB-OUT (L)
12 A/B
11 HSP
10 ACRO2
9 BCRO2
8 REC-IN-SEL
7 NC
6 IREF
5 AUX (R)
4 AUX (L)
3 TAPE (R)
2 TAPE (L)
1 GND
10K
B A
1.12K
2.26K
2.7K
5K
139K
R-CH
L-CH
A B
REC-EQ
12dB
100K
R-CH
L-CH

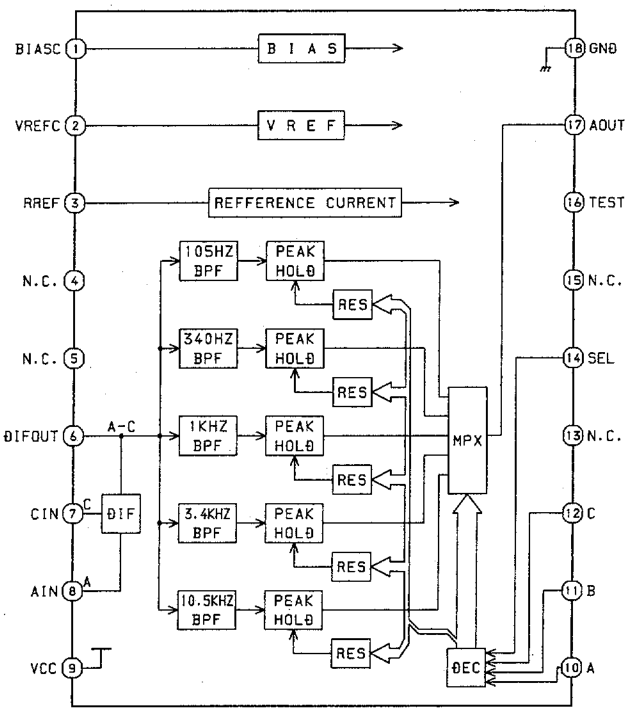
IC, M62445AFP


CLK 32
DATA 31
LATCH 30
CD-ON 29
TU-ON 28
DGND 27
DOLBY/Q.SUR 26
BIAS 25
ALC 24
AVSS 23
PB SEL 22
REC SEL 21
BBE2 20
BBE1 19
S-MUTE 18
SURROUND 17
LOGIC INTERFACE
ALC
L-ALC 33
L-OUT2 34
T-BASS FILTER 35 36 37
T-BASS FILTER
GEQ FILTER 38 39 40 41
BASS/TREBLE
A-GND 42
L-IN 43
REC IN (L) 44
SEL-L 45
REC-L 46
K-CON IN 47
K-CON OUT 48
B SW10
A
6dB
SW11 B
A
6dB
16 R-ALC
15 R-OUT2
14 13 12 T-BASS FILTER
T-BASS FILTER
11 10 9 8 GEQ FILTER
BASS/TREBLE
7 R-IN
6 NC
5 NC
4 REC IN (R)
3 SEL-R
2 REC-R
1 MIC IN
MIC MIX
SW OPAMP
6dB
SW8
SW OPAMP
6dB
SW9
10dB
10dB
0dB ~10dB
VOCAL CUT
3K
SW2
3K
SW4
SW6
SW1
SW3
SW5
SW7
E D C B A
A B C D E
GND 49
TAPE 50
TUNER 51
AUX 52
MD 53
CD 54
A-GND 55
VOCAL FADER FILTER 56 57
AVDD 58
CD 59
MD 60
AUX 61
TUNER 62
TAPE 63
DVDD 64

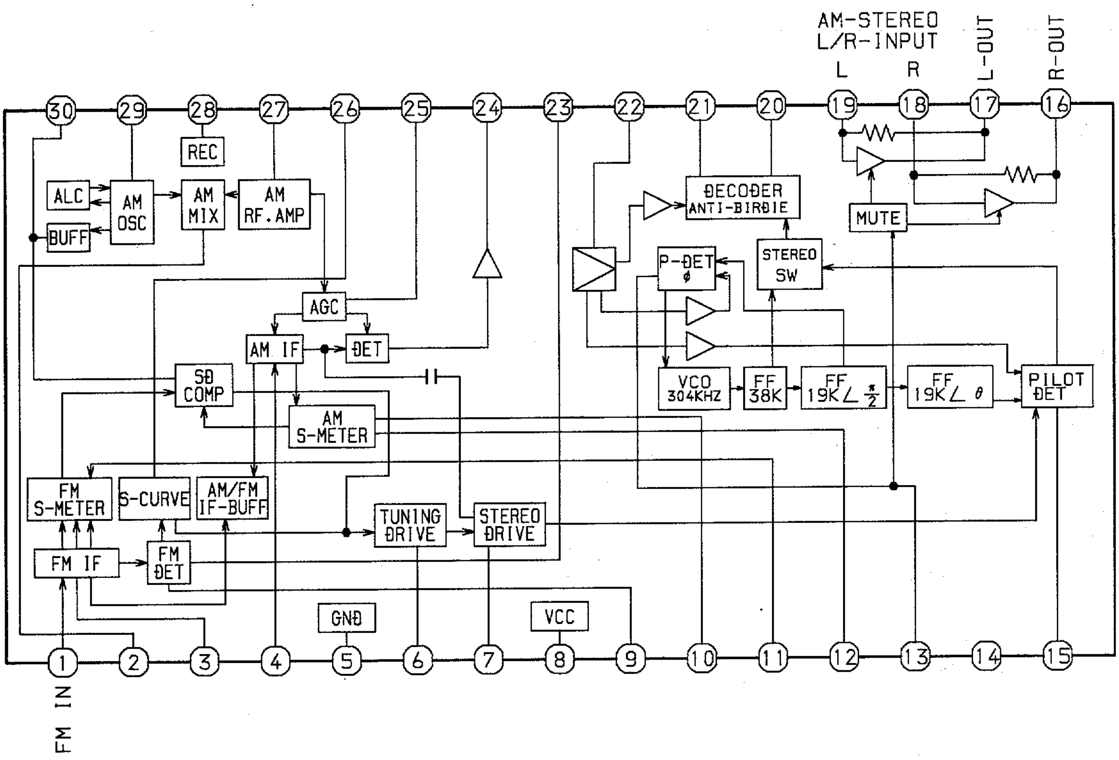
IC, BU2099FV


VSS 1
NC 2
DATA 3
CLOCK 4
LCK 5
Q0 6
QI 7
Q2 8
Q3 9
Q4 10
20 VDD
19 OE
18 SO
17 Q11
16 Q10
15 Q9
14 Q8
13 Q7
12 Q6
11 Q5
LPF
LOGIC
OUTPUT BUFFER (OPEN DRAIN)
12BIT STORAGE REGISTER
12BIT SHIFT REGISTER

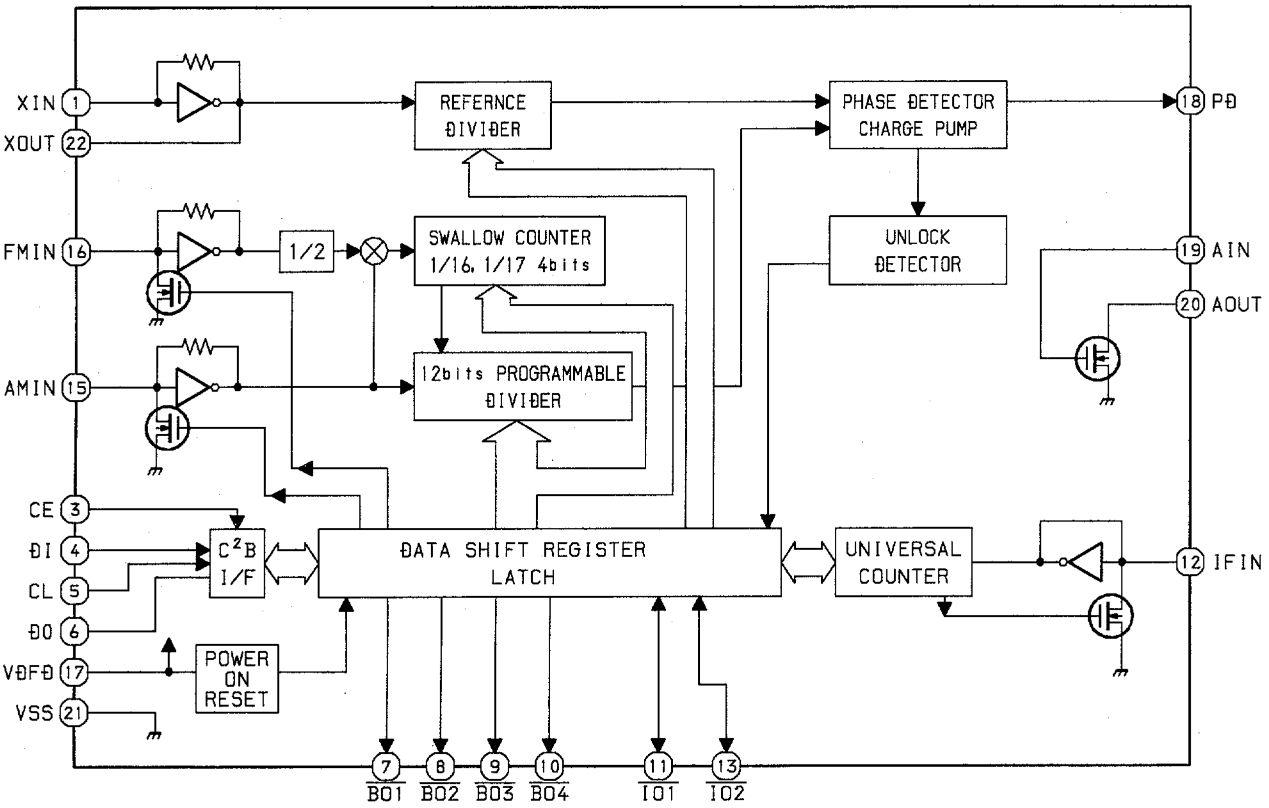
IC, BA3835F


BIASC 1
VREFC 2
RREF 3
N.C. 4
N.C. 5
DIFOUT 6
CIN 7
AIN 8
VCC 9
18 GND
17 AOUT
16 TEST
15 N.C.
14 SEL
13 N.C.
12 C
11 B
10 A
B I A S
V R E F
REFFERENCE CURRENT
105HZ BPF
340HZ BPF
1KHZ BPF
3.4KHZ BPF
10.5KHZ BPF
PEAK HOLD
RES
MPX
DEC
DIF
A-C
C
A

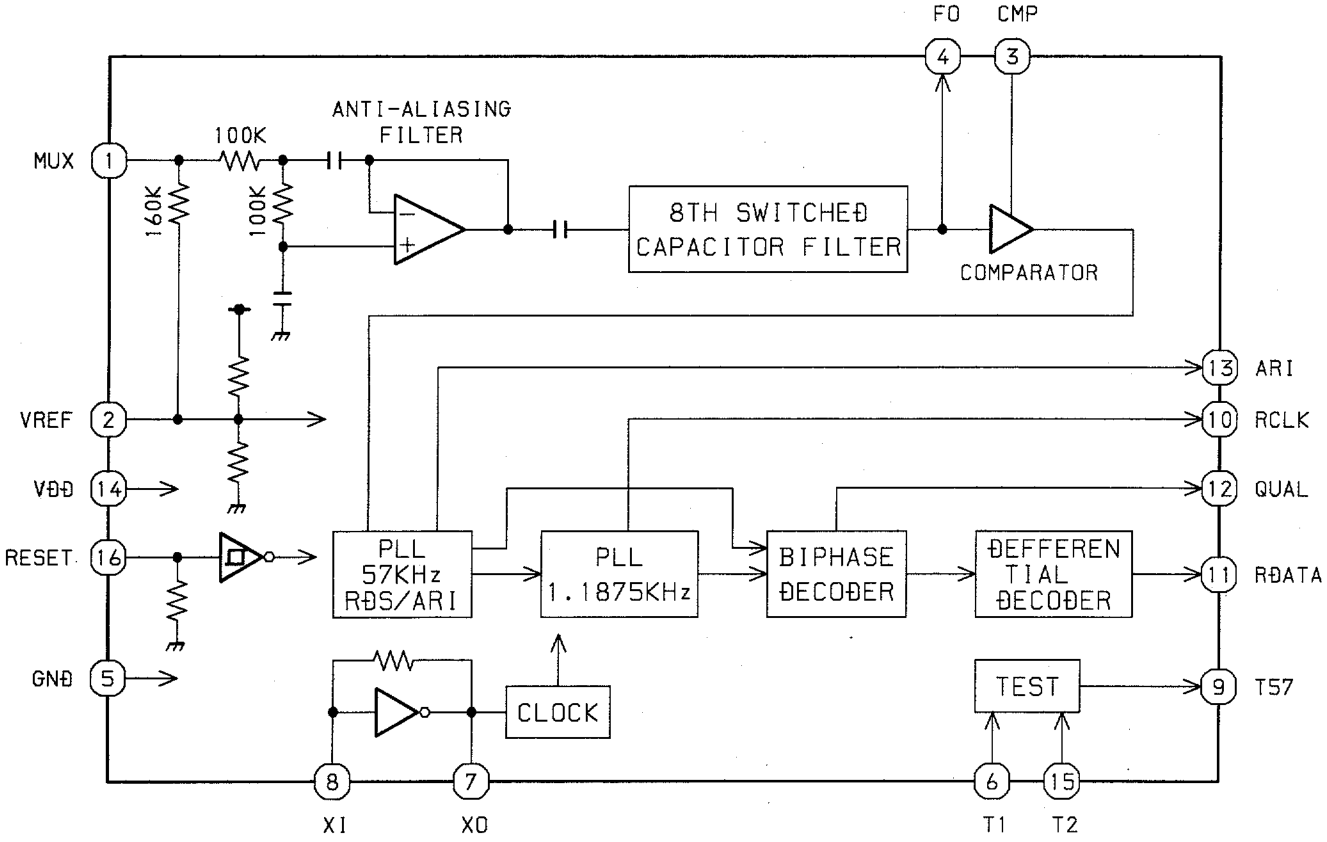
IC, LA1837NL


AM-STEREO L/R-INPUT
L
R
L-OUT
R-OUT
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
REC
ALC
AM OSC
AM MIX
AM RF.AMP
BUFF
AGC
AM IF
DET
SD COMP
AM S-METER
FM S-METER
S-CURVE
AM/FM IF-BUFF
FM IF
FM DET
TUNING DRIVE
STEREO DRIVE
GND
VCC
DECODER ANTI-BIRDIE
STEREO SW
P-DET φ
VCO 304KHZ
FF 38K
FF 19K∠π/2
FF 19K∠0
PILOT DET
MUTE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
FM IN

IC, LC72131D


XIN 1
XOUT 22
FMIN 16
AMIN 15
CE 3
DI 4
CL 5
DO 6
VDFD 17
VSS 21
REFERNCE DIVIDER
PHASE DETECTOR CHARGE PUMP
18 PD
1/2
SWALLOW COUNTER 1/16, 1/17 4bits
UNLOCK DETECTOR
19 AIN
20 AOUT
12bits PROGRAMMABLE DIVIDER
C²B I/F
DATA SHIFT REGISTER LATCH
UNIVERSAL COUNTER
12 IFIN
POWER ON RESET
7 BO1
8 BO2
9 BO3
10 BO4
11 IO1
13 IO2

IC, BU1920FS


FO 4
CMP 3
ANTI-ALIASING FILTER
MUX 1
100K
160K
100K
8TH SWITCHED CAPACITOR FILTER
COMPARATOR
13 ARI
VREF 2
10 RCLK
VDD 14
12 QUAL
RESET 16
PLL 57KHz RDS/ARI
PLL 1.1875KHz
BIPHASE DECODER
DEFFEREN TIAL DECODER
11 RDATA
GND 5
CLOCK
TEST
9 T57
8 XI
7 XO
6 T1
15 T2

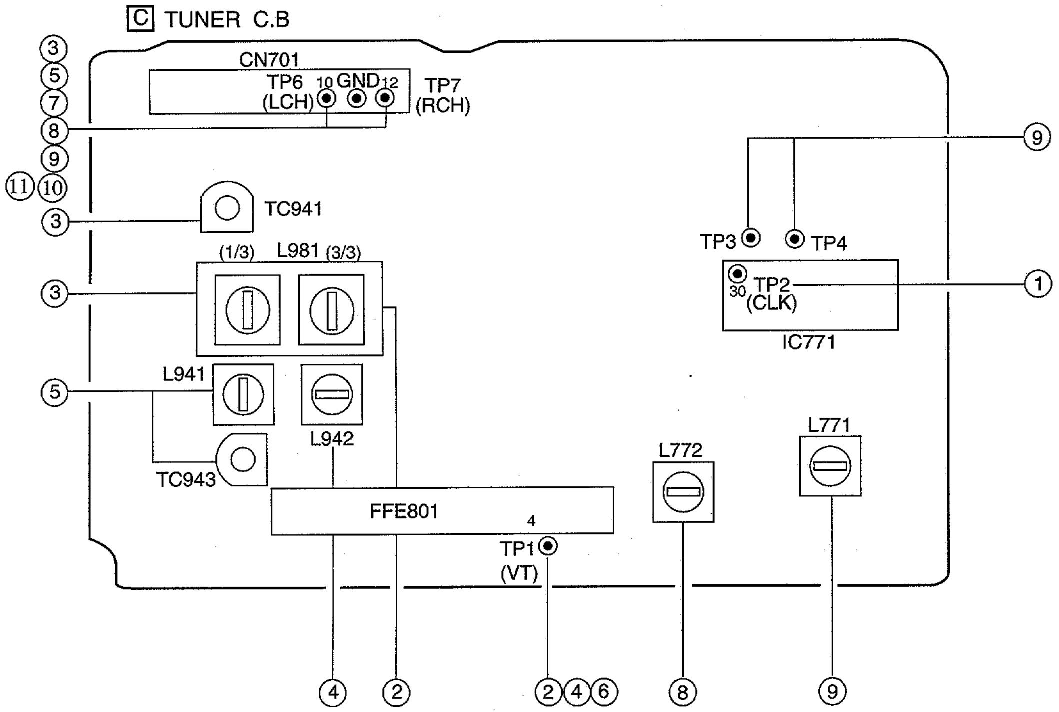
IC DESCRIPTION

IC, uPD780228GF-037-3BA

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{O-K-SCAN}}$	O	Key scan output.
2	I-JOG-A	I	Dial jog rotary encoder input A.
3	I-JOG-B	I	Dial jog rotary encoder input B.
4	$\overline{\text{TAPE}}$	O	" TAPE " LED $\overline{\text{ON}}$/OFF output.
5	$\overline{\text{TUNER}}$	O	" TUNER " LED $\overline{\text{ON}}$/OFF output.
6	$\overline{\text{AUX}}$	O	" AUX " LED $\overline{\text{ON}}$/OFF output.
7	$\overline{\text{CD}}$	O	" CD " LED $\overline{\text{ON}}$/OFF output.
8	$\overline{\text{O-MOTOR}}$	O	DECK MOTOR ON/OFF output.
9	$\overline{\text{O-SOL2}}$	O	DECK2 solenoid output.
10	$\overline{\text{O-SOL1}}$	O	DECK1 solenoid output.
11	O-MUTE	O	System mute ON/OFF output.
12	O-CD.OPEN	O	CD tray open data output.
13	O-CD.CLOSE	O	CD tray close data output.
14	O-STB (SHIFT)	O	Latch strobe output for FRONT shift register.
15	$\overline{\text{I-HP-MUTE}}$	I	Headphone insert detection input.
16	I-TM-BASE	I	Base input for clock.
17	IC	–	Internal connection (connected to GND).
18	VSS	–	GND.
19	VDD	–	Power supply.
20	O-POWER	O	System power supply $\overline{\text{ON}}$/OFF output.
21	O-STB (M)	O	Strobe output for MAIN.
22	O-CLOCK (M)	O	Clock output for MAIN.
23	O-DATA (M)	O	Data output for MAIN.
24	O-CD.DISH.F	O	CD turntable forward rotation output.
25	O-CD.DISH.R	O	CD turntable reverse rotation output.
26	I-WRQ/$\overline{\text{I-STEREO}}$	I	CD WRQ input / Tuner stereo input.
27	I-DRF/$\overline{\text{I-IFCNT}}$	I	CD DRF input / Tune IF count serial data input.
28	I-RDS-CLK	I	Tuner RDS clock input.
29	I-SUBQ/I-RDS DATA	I	CD SUBQ data input / RDS data input.
30	$\overline{\text{RESET}}$	–	System reset.
31	O-DATA	O	CD data output.
32	O-CDCLK	O	CD clock output.
33	O-CD-CE	O	CD enable output.
34	$\overline{\text{I-RMC}}$	I	System remote control input.
35	I-DISH.SENS	I	CD turntable photo sensor input.
36	$\overline{\text{O-CLK-SHIFT}}$	O	Micon clock shift output.
37	VDD1	–	Power supply.
38	X2	–	4.19MHz oscillator circuit.
39	X1	I	4.19MHz oscillator circuit.
40	VSS1	–	GND.
41	AVDD	–	Power supply.
42	$\overline{\text{I-HOLD}}$	I	Power failure detected input." H " to stop clock and main memory.
43	I-CD.SW	I	CD mecha switch input.
44	I-SPEANA	I	AD input for spectrum analyser.

Pin No.	Pin Name	I/O	Description
45	I-RE.VOL	I	Volume jog AD input.
46	I-RDS-SIG	I	RDS tuner signal input.
47	I-KEY3	I	Key3 input.
48	I-KEY2	I	Key2 input.
49	I-KEY1	I	Key1 input.
50	AVSS	–	GND.
51	O-CDLED	O	CD flash window LED ON/OFF output.
52	O-PLL-CE	O	Chip enable output for tuner PLL.
53 ~ 58	P1 ~ P6	O	FL segment P1 ~ P6 output.
59	P7/REV2	I/O	FL segment P7 output / REV2 data input.
60	P8/REV1	I/O	FL segment P8 output / REV1 data input.
61	P9/AM10K	I/O	FL segment P9 output / AM10K data input.
62	P10/AMST.WIDE	I/O	FL segment P10 output / AMST WIDE data input.
63	P11/LW	I/O	FL segment P11 output / LW mode data input.
64	P12/SW	I/O	FL segment P12 output / SW mode data input.
65	P13/FM1	I/O	FL segment P13 output / FM1 mode data input.
66	P14/RDS	I/O	FL segment P14 output / RDS data input.
67	P15/CST2	I/O	FL segment P15 output / DECK2 cassette detect switch data input.
68	P16/REB	I/O	FL segment P16 output / DECK2 side B record OK switch data input.
69	P17/CAM2	I/O	FL segment P17 output / DECK2 CAM switch data input.
70	P18/AUTO1	I/O	FL segment P18 output / DECK1 AUTO STOP switch data input.
71	P19/AUTO2	I/O	FL segment P19 output / DECK2 AUTO STOP switch data input.
72	P20/CAM1	I/O	FL segment P20 output / DECK1 CAM STOP switch data input.
73	P21/CST1	I/O	FL segment P21 output / DECK1 cassette detect switch data input.
74	P22/REA	I/O	FL segment P22 output / DECK2 side A record OK switch data input.
75	P23/KARAOKE	I/O	FL segment P23 output / KARAOKE data input.
76	P24/PROLOGIC	I/O	FL segment P24 output / PROLOGIC data input.
77	P25/NO DEMO	I/O	FL segment P25 output / NO DEMO data input.
78	P26	I/O	FL segment P26 output
79	VDD2	–	Power supply.
80	-VFL	–	Power supply for FL display.
81	SPEANA-A/P27	O	Spectrum analyser band switching data output / FL segment P27 output.
82	SPEANA-B/P28	O	Spectrum analyser band switching data output / FL segment P28 output.
83	SPEANA-C/P29	O	Spectrum analyser band switching data output / FL segment P29 output.
84 ~ 89	P30 ~ P35	O	FL segment P30 ~ P35 output.
90 ~100	G11 ~ G1	O	FL grid G10 ~ G1 output.

ADJUSTMENT – 1 <TUNER : HR>



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Adjustment
   Settings : • Test point : TP1(VT)
   • Adjustment location : L981(3/3)
   Method : Set to MW 1710kHz and adjust L981(3/3) so that the test point becomes 8.0V ± 0.05V. Then set to MW 530kHz and check that the test point is more than 0.3V.

3. MW Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L981(1/3) 603kHz
   TC941 .... 1404kHz
   Method : Set up TC941 to center before adjustment.
   The level at 603kHz is adjust to max. by L981(1/3).
   Then the level at 1404kHz is adjust to max. by TC941.

4. SW VT Adjustment
   Settings : • Test point : TP1(VT)
   • Adjustment location : L942
   Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 7.0V ± 0.05V. Then set to SW 5.9MHz and check that the test point is more than 0.3V.

5. SW Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L941 .... 5.9MHz
   TC943 .... 17.9MHz
   Method : Set up TC943 to center before adjustment.
   The level at 5.9MHz is adjust to max. byL941.
   Then the level at 17.9MHz is adjust to max. by TC943.

6. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

7. FM Tracking Check
   Settings : • Test point : TP6(Lch), TP7(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

8. AM IF Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L772 .... 450kHz
   Method : Adjust L772 so that the output becomes max.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP6(Lch), TP7(Rch) (Distortion)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

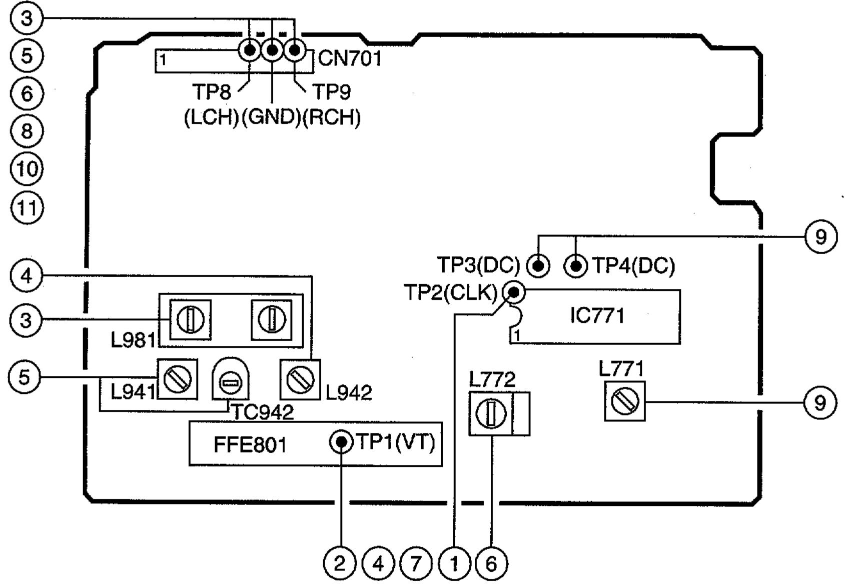
10. Output Level Check
    <MW>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 74dBμV
    Method : Set to MW 999kHz and check that the test point is 130mV ± 3dB.

    <FM>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is 520mV ± 3dB.

11. FM Separation Check
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is more than 25dB.

ADJUSTMENT – 2 <TUNER : EZ, K>

C TUNER C.B



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.

3. MW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L981 (1/3)
   Method : Set to MW 999kHz and adjust L981 (1/3) so that the test point becomes maximum.

4. LW VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V ± 0.05V.
   Then set to LW 290kHz and check that the test point is less than 8.0V.

5. LW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L941 .... 144kHz
   TC942 .... 290kHz
   Method : Set up TC942 to center before adjustment.
   The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

6. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L772 .... 450kHz

7. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.

8. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 13dBμV.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3,TP4 (DC balance)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

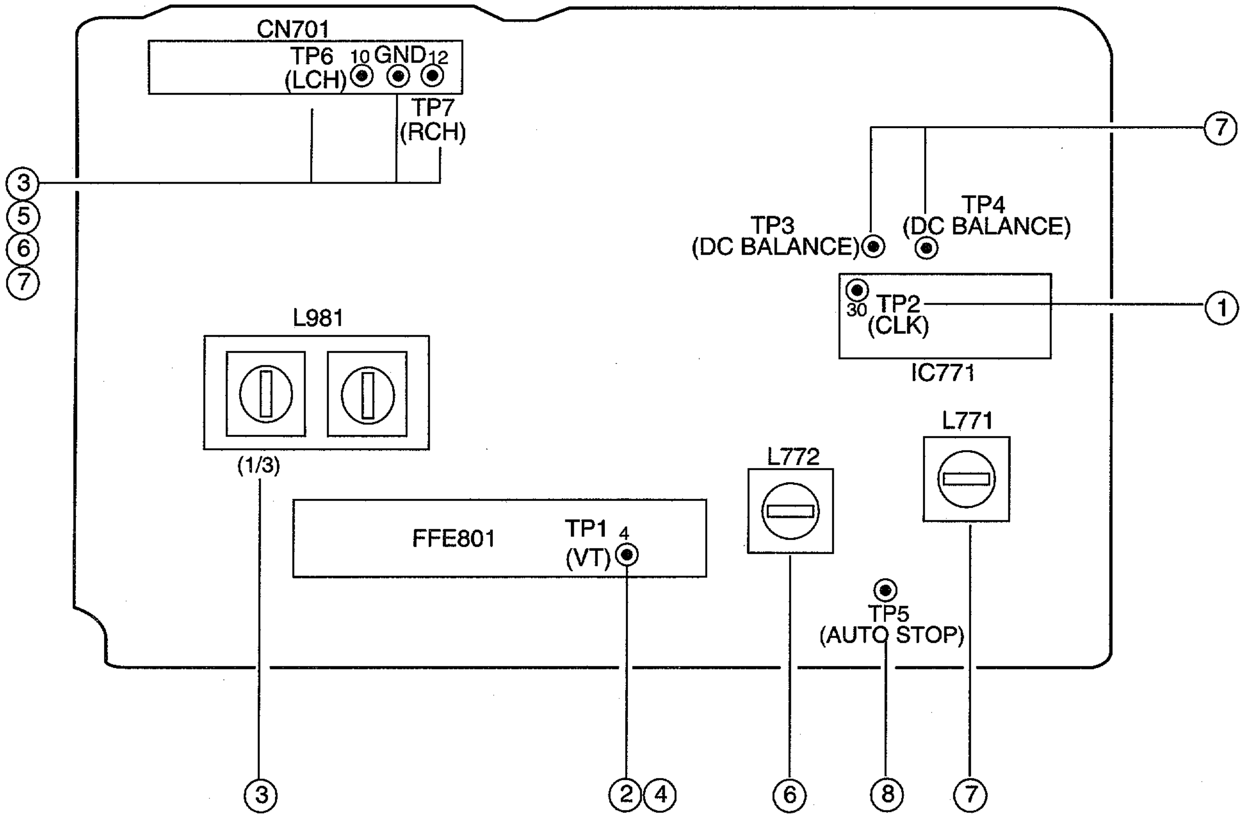
10. Output Level Check
    <MW>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 74dBμV
    Method : Set to MW 999kHz and check that the test point is 130mV ± 3dB.

    <FM>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is 520mV ± 3dB.

11. FM Separation Check
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is more than 25dB.

ADJUSTMENT – 3 <TUNER : V>

D TUNER C.B



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1
   Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz).

3. AM Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L981(1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L981(1/3) so that the test point becomes max.

4. FM VT Check
   Settings : • Test point : TP1
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP6(Lch), TP7(Rch)
   Method : • Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

6. AM IF Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L772 ....450kHz
   Method : • Adjust L772 so that the output becomes max

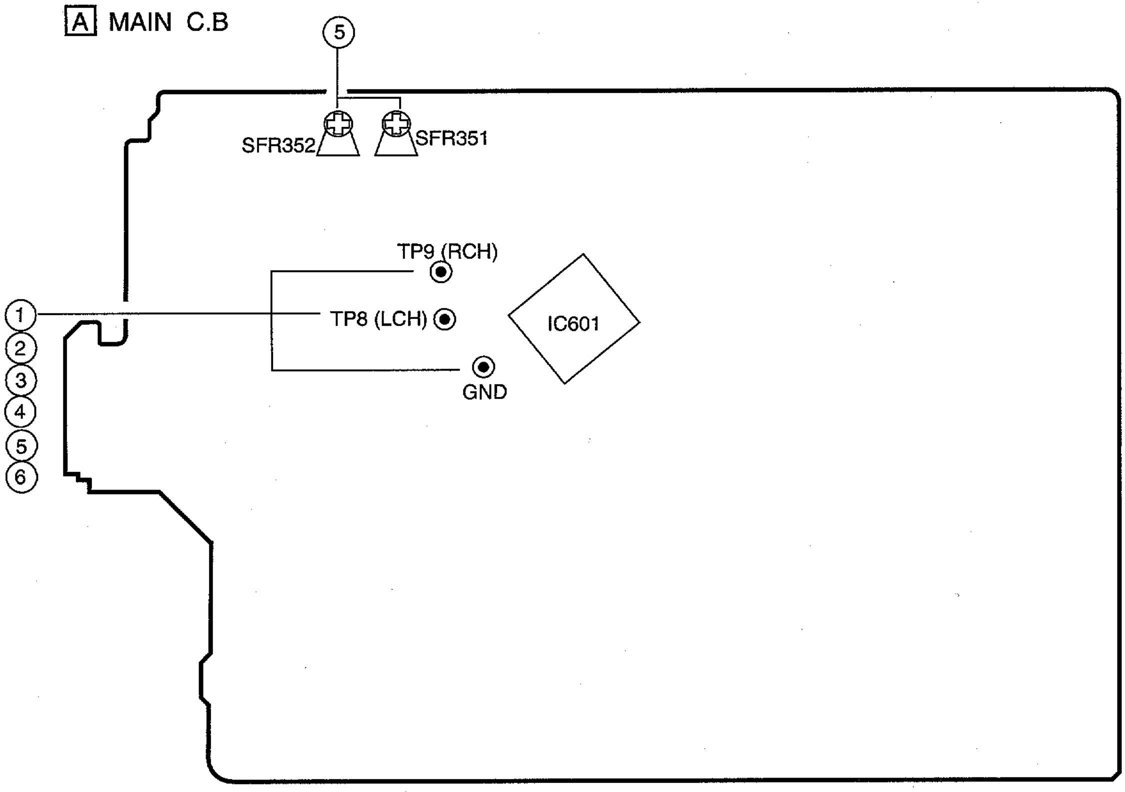
7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP6(Lch), TP7(Rch) (Distortion)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V. Next, check that the distortion is less than 1.3%

8. Auto Stop Level Check
   AM
   Settings : • Test point : TP5
   • Input level : 52dBμV
   Method : Set to AM 1000kHz and check that the auto stop is at 52dBμV +10/-15dB.

   FM
   Settings : • Test point : TP5
   • Input level : 25dBμV
   Method : Set to FM 98.0MHz and check that the auto stop is at 25dBμV ± 10dB.

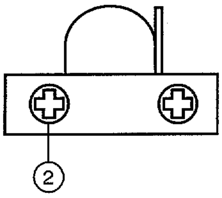
ADJUSTMENT – 4 <DECK>

A MAIN C.B

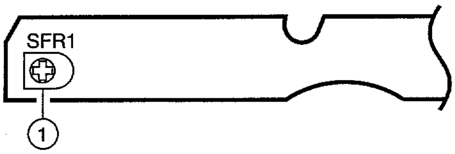


⑤
SFR352
SFR351
TP9 (RCH)
①
②
③
④
⑤
⑥
TP8 (LCH)
IC601
GND

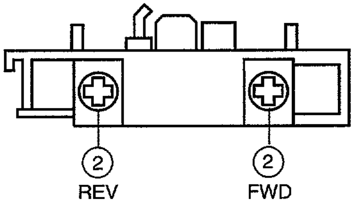
DECK-2 R/P/E HEAD (EXCEPT HR)



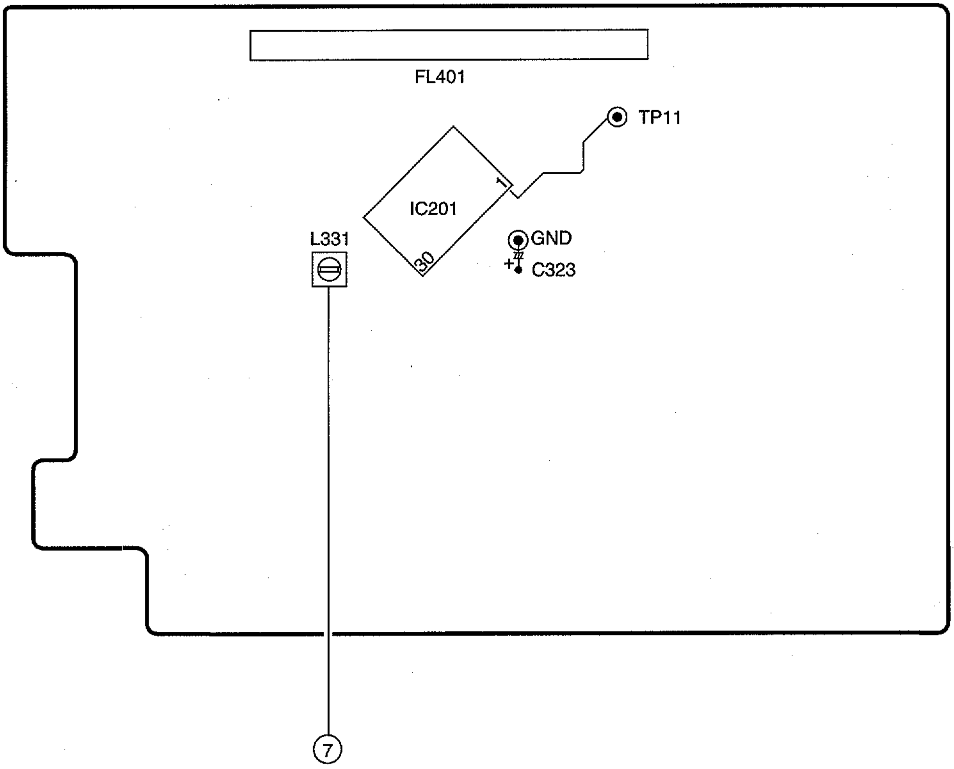
E DECK C.B



DECK–1 P HEAD
DECK-2 R/P/E HEAD (HR ONLY)



B FRONT C.B



FL401
TP11
IC201
1
30
L331
GND
C323
⑦

ADJUSTMENT <DECK>

< DECK SECTION >

1. Tape Speed Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR101 so that the frequency counter reads 3000Hz ± 5Hz and ±45Hz (REV) with respect to forward speed.

2. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

3. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point :TP8(Lch), TP9(Rch)
   Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

4. PB Sensitivity Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–200 (400Hz)
   • Test point : TP8(Lch), TP9(Rch)
   Method : Play back the test tape and check that the output level of the test point is 250mV ± 3dB.

5. REC/PB Frequency Response Adjustment (DECK 1)
   Settings : • Test tape : TTA–602
   • Test point : TP8(Lch), TP9(Rch)
   • Input signal : 1kHz / 10kHz (LINE IN)
   • Adjustment location : SFR351 (Lch)
   SFR352 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU(-30.2dBV). Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

6. REC/PB Sensitivity Check (DECK 1)
   Settings : • Test tape : TTA–602
   • Test point : TP8(Lch), TP9(Rch)
   • Input signal : 1kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (-10.2dBV). Record and play back the 1kHz signals and check that the output is 0dB ± 3.5dB.

7. μ-con OSC Adjustment
   Settings : • Test point : TP11,GND
   • Adjustment location : L331
   Method : Insert AC plug while pressing TUNER function key. Adjust L351 so that the frequency across the test point becomes 84.8 ± 0.08Hz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

FM SECTION

IHF Sensitivity :	Less than 10dB (at 87.5MHz)<HR> Less than 9dB (at 98.0/108.0MHz)<HR> Less than 14dB (at 87.5MHz)<EZ,K> Less than 13dB (at 98.0/108.0MHz)<EZ,K> Less than 8dB (at 87.598.0/108.0MHz)<V> Less than 12dB (at 70.0MHz)<V>
Signal to noise ratio :	More than 68dB (at 98.0MHz)<MONO> More than 68dB (at 98.0MHz)<STEREO>
Distortion :	Less than 1.2%(at 98.0MHz) <MONO> Less than 2.0%(at 98.0 MHz) <STEREO>
Stereo separation :	More than 22dB (at 98.0MHz)<EXCEPT EZ,K> More than 12dB (at 98.0MHz)<EZ,K>
Intermediate frequency :	10.7MHz

MW SECTION

Sensitivity :	Less than 60 dB (at 603kHz) Less than 58 dB (at 999/1404kHz)
S/N :	More than 36 dB (at 999/1000kHz)
Distortion :	Less than 1.5% (at 999/1000kHz)

SW SECTION<HR>

Sensitivity :	Less than 51 dB (at 5.9MHz) Less than 45 dB (at 12.0MHz) Less than 44 dB (at 17.9MHz)

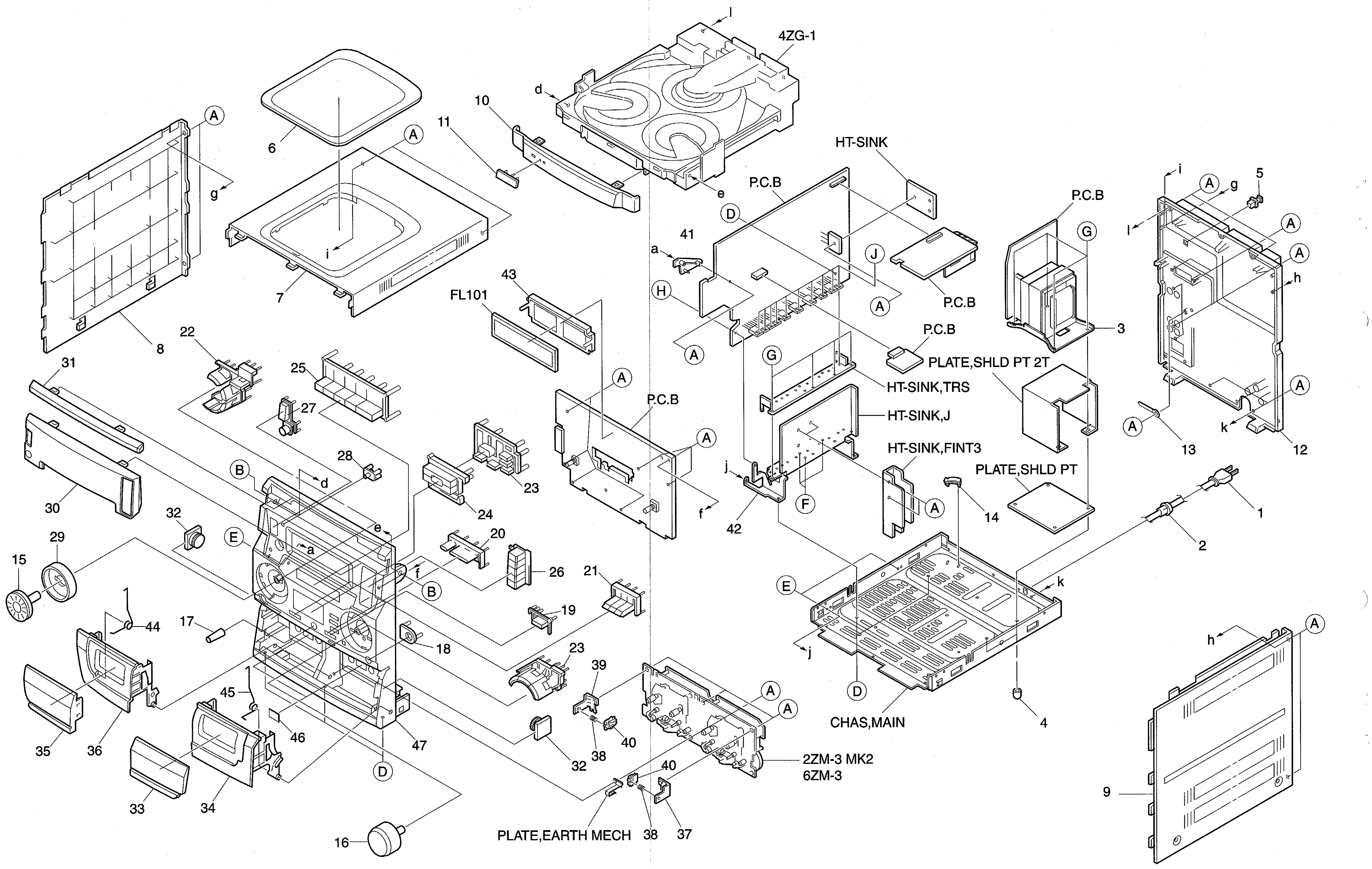
LW SECTION<EZ,K>

Sensitivity :	Less than 64 dB (at 144kHz) Less than 68 dB (at 198kHz) Less than 66 dB (at 290kHz)

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.25% (W.R.M.S.)
Take-up torque :	30 ~ 55g-cm
F.F torque :	75 ~ 180g-c
REW torque :	75 ~ 130g-c
Back tension :	2 ~ 7g-cm (FWD,REV)
PB Output level :	2.8V ± 2dB (SP OUT 2V)
REC/PB Output level :	2.0V ± 1dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
Noise level (PB) :	Less than 1.0mV(FILTER DIN AUDIO)
Noise level (REC/PB) :	Less than 1.2mV(FILTER DIN AUDIO)
Erasing ratio :	More than 60dB (at 125Hz)
Test Tape :	TTA-602,TA-200

MECHANICAL EXPLODED VIEW 1 / 1



4ZG-1
d
e
l
10
11
6
A
g
i
7
8
A
HT-SINK
P.C.B
D
41
a
J
H
A
P.C.B
P.C.B
A
P.C.B
G
3
i
A
g
5
l
A
A
h
43
FL101
22
31
25
27
A
P.C.B
A
G
PLATE,SHLD PT 2T
HT-SINK,TRS
HT-SINK,J
HT-SINK,FINT3
PLATE,SHLD PT
A
13
12
k
A
28
B
d
23
24
30
e
32
29
15
E
a
f
B
20
26
21
19
f
j
42
F
A
14
1
2
E
k
j
D
CHAS,MAIN
4
44
17
18
23
39
A
A
45
46
47
D
36
35
33
34
32
38
40
40
38
37
2ZM-3 MK2
6ZM-3
PLATE,EARTH MECH
16
h
A
9

MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
⚠ 1	87-050-034-010		AC CORD ASSY,E<K>
⚠ 1	87-050-079-010		AC-CORD ASSY,E<EXCEPT K>
2	87-085-185-010		BUSHING, AC CORD (E)
⚠ 3	8Z-NF8-606-010		PT,ZNF-8EZ<555EZ,556EZ,K,V>
⚠ 3	8Z-NF8-605-010		PT,ZNF-8HR<HR>
4	8Z-NB8-240-010		COVER, PL
5	84-ZG1-245-210		CAP,OPTICAL
6	86-NFZ-001-010		WINDOW,TOP
7	8Z-NF9-042-010		PANEL,TOP V-2
8	8Z-NB8-011-110		PANEL,LEFT V-2
9	8Z-NF9-043-010		PANEL,RIGHT S V-2
10	8Z-NF8-025-010		PANEL,TRAY U
11	82-NE6-067-010		BADGE,AIWA 30N
12	8Z-NF8-056-010		CABI,REAR EZSTM<555EZ>
12	8Z-NF8-057-010		CABI,REAR EZSTM R<556EZ>
12	8Z-NF8-041-010		CABI,REAR HRJSTNM<HR>
12	8Z-NF8-043-010		CABI,REAR KSTNE<K>
12	8Z-NF8-046-110		CABI,REAR VJSTM<V>
13	87-064-185-010		HLDR,WIRE
14	87-NF4-221-010		HLDR,CABLE
15	8Z-NF8-026-010		KNOB,RTRY JOG
16	8Z-NF8-027-010		KNOB,RTRY VOL
17	8Z-NF8-028-010		KNOB,RTRY MIC<HR>
18	8Z-NF9-204-010		PLATE,MIC<HR>
19	8Z-NF8-009-010		KEY,EDIT<555EZ,556EZ,K,V>
19	8Z-NF8-048-010		KEY,EDIT H<HR>
20	8Z-NF8-050-010		KEY,KARAOKE<HR>
21	8Z-NF8-020-010		KEY,RDS<556EZ>
22	8Z-NF8-008-010		KEY,TIMER
23	8Z-NF8-013-010		KEY,ASSY PLAY
24	8Z-NF8-016-010		KEY,ASSY PAUSE
25	8Z-NF8-006-010		KEY,CD
26	8Z-NF8-010-010		KEY,ASSY FUN
27	8Z-NF8-005-010		KEY,POWER<EXCEPT K>
27	8Z-NF8-005-110		KEY,POWER<K>
28	8Z-NF8-007-010		REFLECTOR,ECO
29	8Z-NF8-029-010		REFLECTOR,JOG
30	8Z-NF8-036-010		WINDOW,DISP E<556EZ>
30	8Z-NF8-034-010		WINDOW,DISP H<HR>
30	8Z-NF8-035-010		WINDOW,DISP K<555EZ,K,V>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
31	8Z-NF8-024-010		WINDOW,CD
32	87-NF8-220-010		DMPR,150
33	8Z-NF8-022-010		WINDOW,CASS 2
34	8Z-NF8-038-010		BOX,CASS 2H<HR>
34	8Z-NF8-004-010		BOX,CASS 2U<555EZ,556EZ,K,V>
35	8Z-NF8-021-010		WINDOW,CASS 1
36	8Z-NF8-068-010		BOX,CASS 1 E<EXCEPT HR>
36	8Z-NF8-037-010		BOX,CASS 1H<HR>
37	87-NF4-217-010		HLDR,LOCK 2<HR,555EZ,556EZ>
37	87-NF4-217-110		HLDR,LOCK 2<K,V>
38	86-NF9-224-010		SPR-C,LOCK
39	87-NF4-216-010		HLDR,LOCK 1
40	82-NF5-229-010		PLATE,LOCK
41	88-NF5-208-010		HLDR,PWB-M N
42	8Z-NF8-205-110		HLDR,HT-SINK<K,V>
42	8Z-NF8-205-010		HLDR,HT-SINK<HR,555EZ,556EZ>
43	88-NF8-205-010		GUIDE,FL<EXCEPT K>
44	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
45	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
46	81-532-080-010		LABEL, CASS. COMPT
47	8Z-NF8-040-010		CABI,FR E<556EZ>
47	8Z-NF8-033-010		CABI,FR H<HR>
47	8Z-NF8-001-010		CABI,FR U<555EZ,K,V>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-721-097-410		QT2+3-12 GLD
C	87-078-191-010		S-SCREW,IT+4-10
D	87-067-688-010		BVTT+3-6
E	87-721-096-410		QT2+3-10 GLD
F	87-067-758-010		BVT2+3-12 W/O SLOT
G	87-067-581-010		TAPPING SCREW, BVT2+3-15
H	87-NF4-224-010		S-SCREW,IT3B+3-8 CU

COLOR NAME TABLE

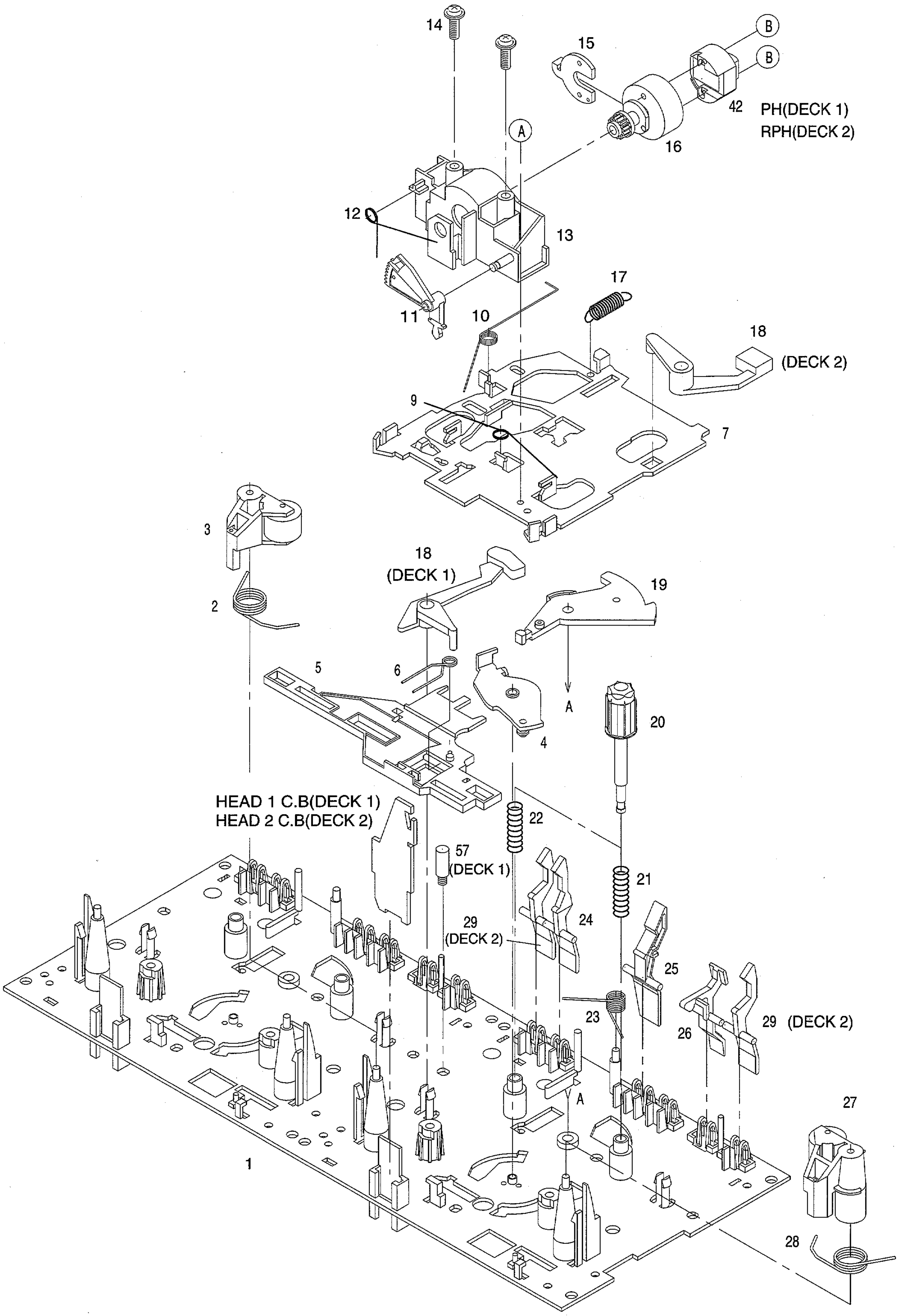
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

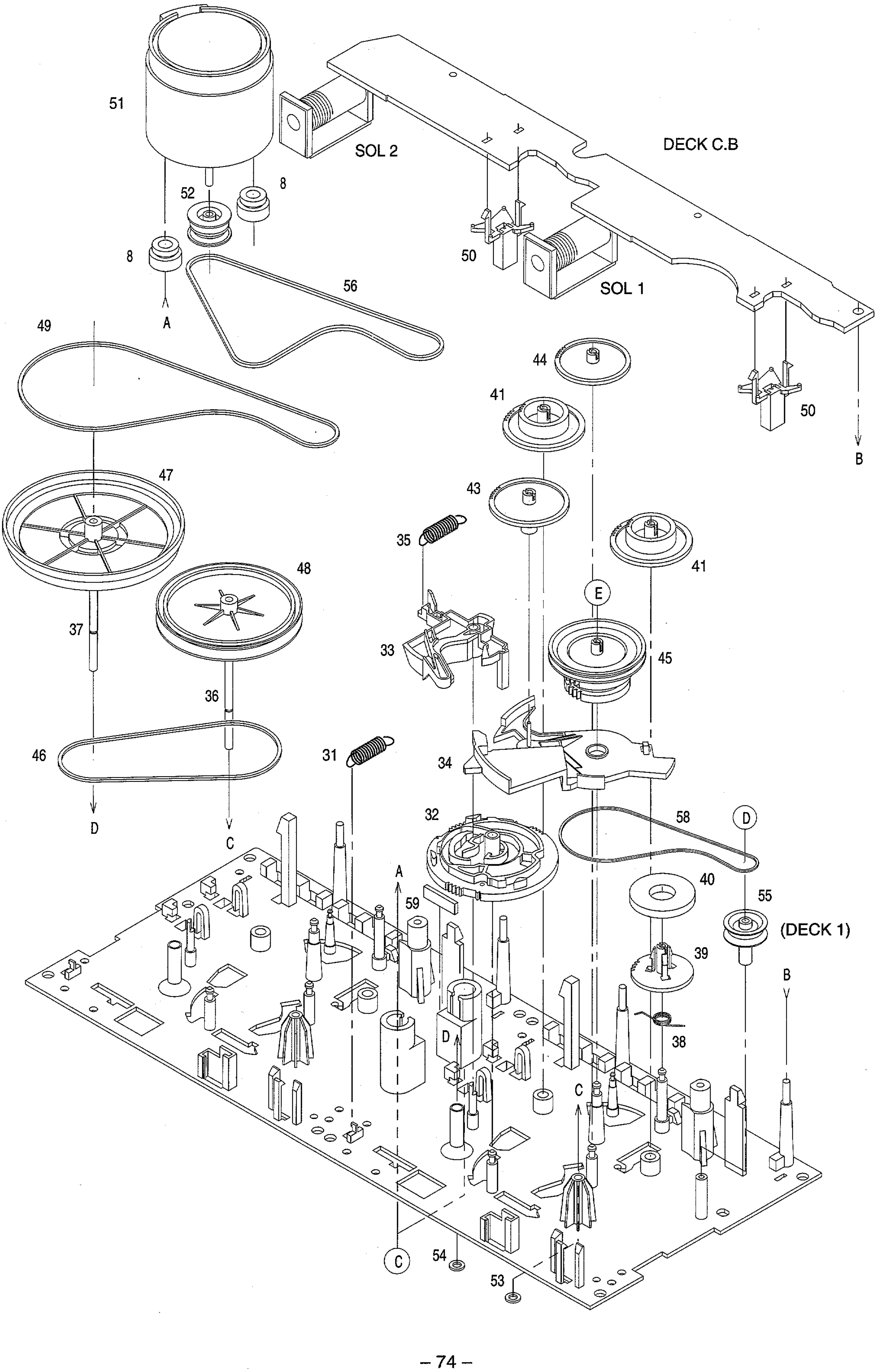
TAPE MECHANISM PARTS LIST 1 / 1 <2ZM-3MK2 PR4NM>

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

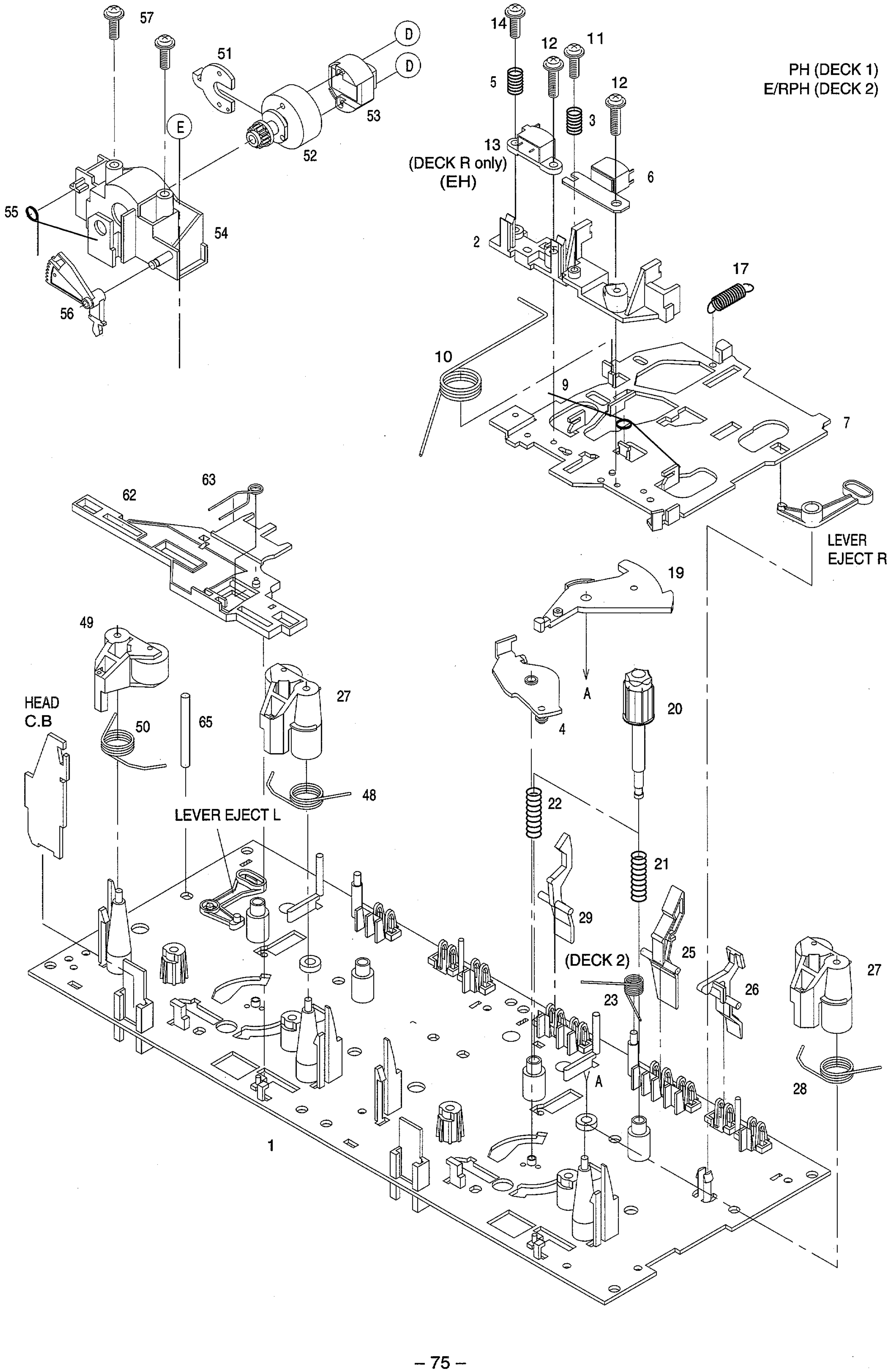
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

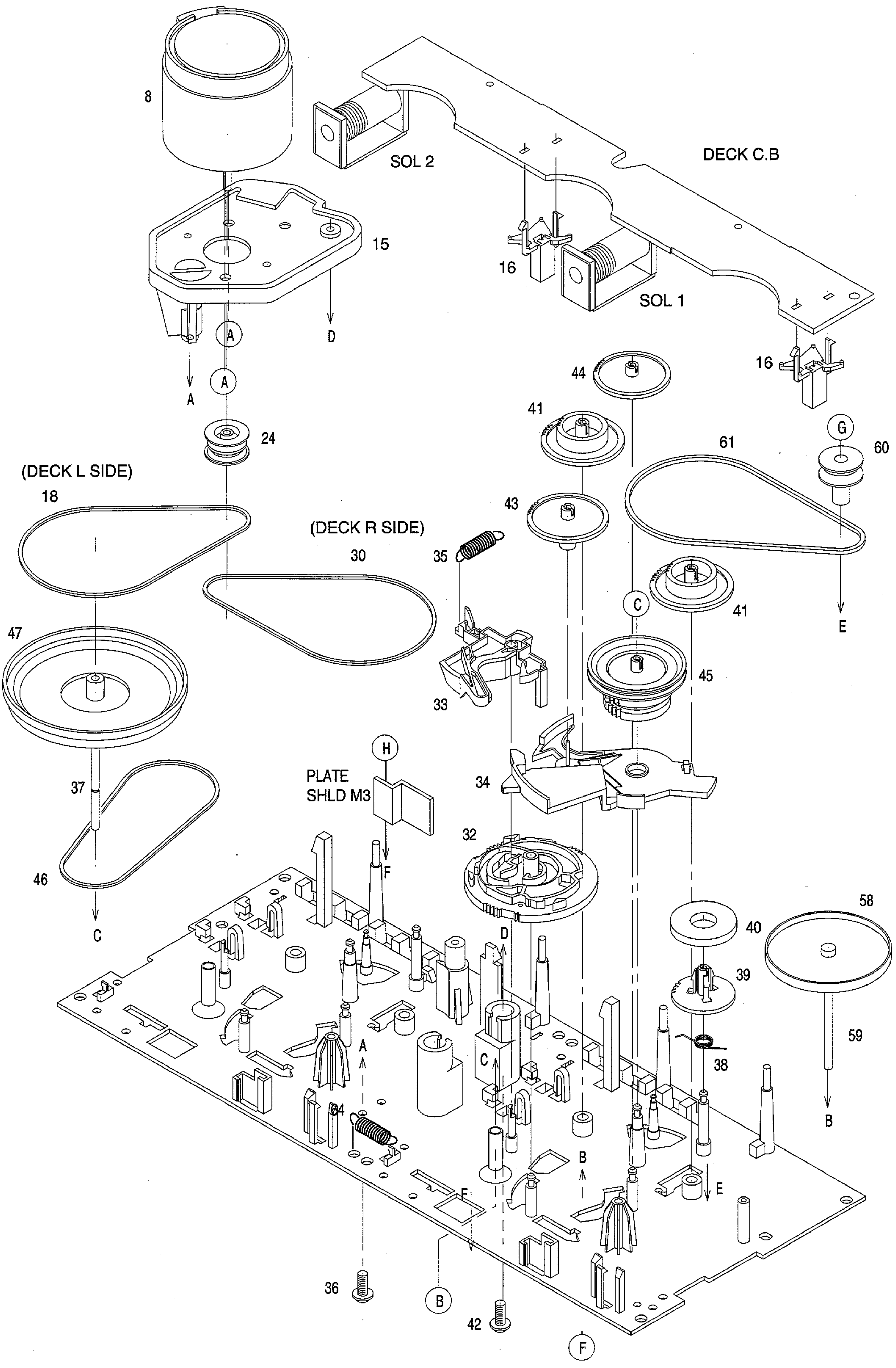
TAPE MECHANISM EXPLODED VIEW 1 / 1 <2ZM-3MK2 PR4NM>


14
15
B
B
42
PH(DECK 1)
RPH(DECK 2)
A
16
12
13
17
11
10
18
(DECK 2)
9
7
3
18
(DECK 1)
19
2
5
6
A
20
4
HEAD 1 C.B(DECK 1)
HEAD 2 C.B(DECK 2)
22
57
(DECK 1)
21
29
(DECK 2)
24
25
23
26
29 (DECK 2)
A
27
1
28


SOL 2
DECK C.B
SOL 1
A
B
E
D
D
C
A
(DECK 1)
B
D
C
C

TAPE MECHANISM EXPLODED VIEW 1 / 1 <6ZM–3 PR2NM>


57
51
D
D
53
E
52
55
54
56
14
12
11
5
12
3
13
(DECK R only)
(EH)
6
2
PH (DECK 1)
E/RPH (DECK 2)
17
10
9
7
LEVER
EJECT R
63
62
19
49
A
HEAD
C.B
50
65
27
4
20
48
22
LEVER EJECT L
21
29
25
(DECK 2)
23
26
27
28
A
1

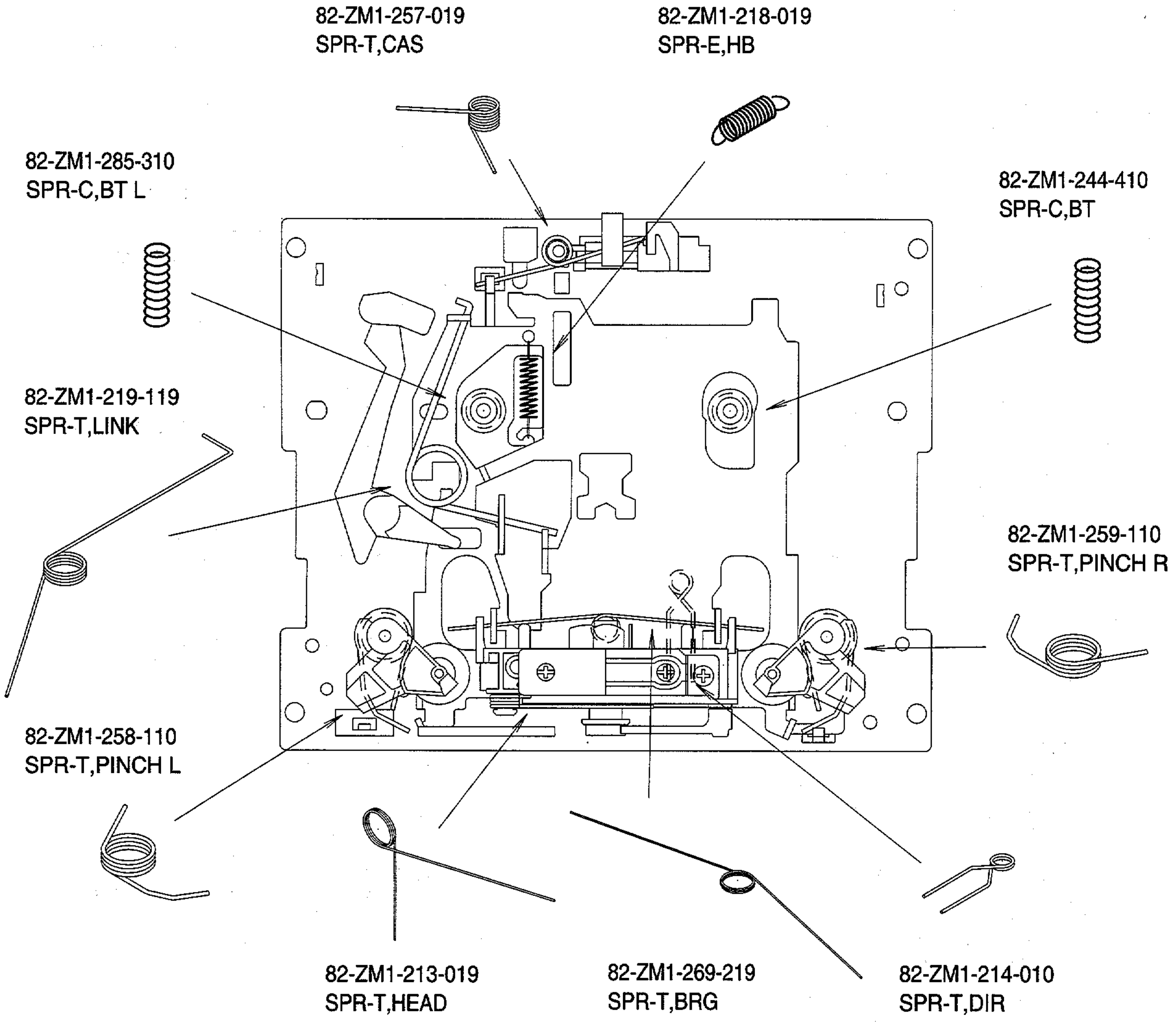

8
SOL 2
DECK C.B
15
16
SOL 1
A
D
A
A
16
44
24
41
G
61
60
(DECK L SIDE)
18
43
(DECK R SIDE)
35
30
C
41
47
E
45
33
H
PLATE
SHLD M3
34
37
32
F
46
58
C
D
40
39
59
A
38
C
64
B
B
E
F
36
B
42
F

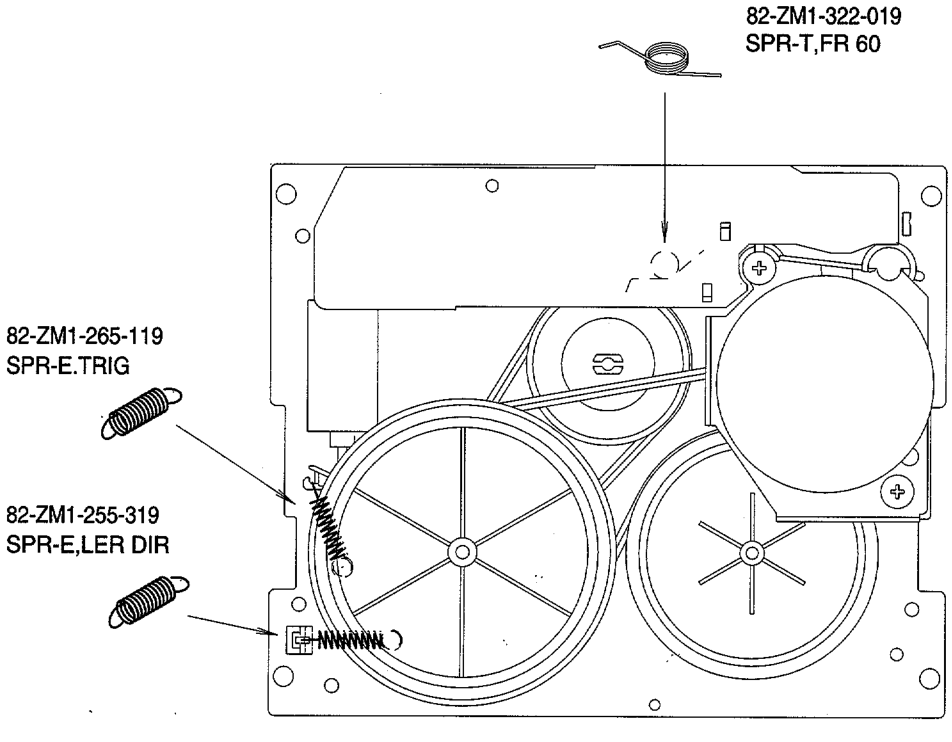
TAPE MECHANISM PARTS LIST 1 / 1 <6ZM-3 PR2NM>

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

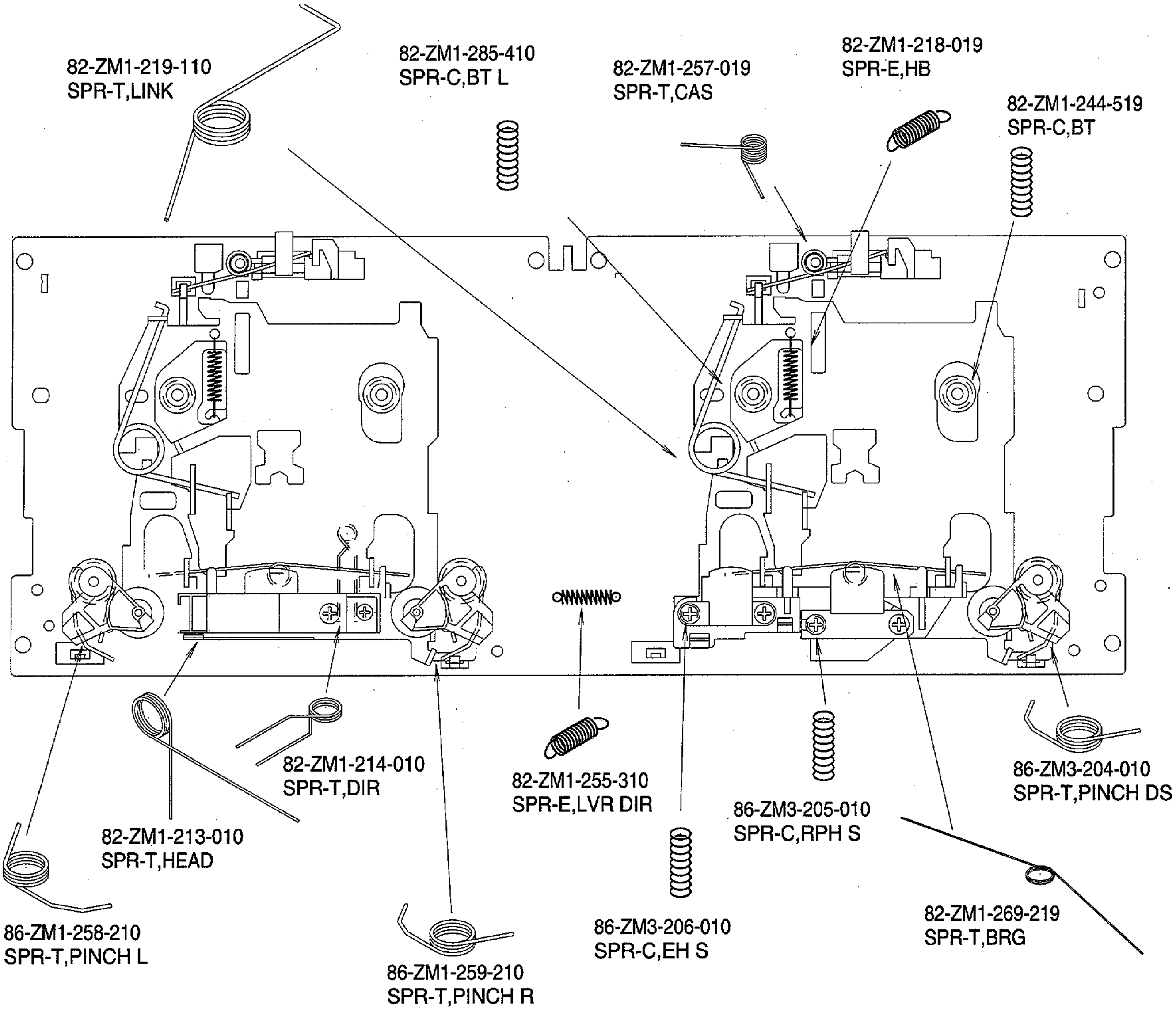
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-215-010		CHAS ASSY,RS
2	86-ZM3-202-010		BASE,HEAD S
3	86-ZM3-205-010		SPR-C,RPH S
4	82-ZM1-333-210		PLATE,LINK 2
5	86-ZM3-206-010		SPR-C,EH S
6	87-A90-403-019		HEAD,RPH MS15R
7	86-ZM3-201-010		CHAS,HEAD S(DECK L)
7	82-ZM3-206-910		CHAS,HEAD(DECK R)
8	87-045-347-019		MOT,SHU2L 70(M1)
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	86-ZM3-209-010		S-SCREW,ASIMUTHS
12	86-ZM3-207-010		S-SCREW,RPH
13	87-A90-404-019		HEAD,EH LE15B
14	86-ZM3-208-010		S-SCREW,EH
15	86-ZM3-203-010		HLDR,MOTS
16	82-ZM1-245-210		HLDR,IC
17	82-ZM1-218-019		SPR-E,HB
18	86-ZM3-214-010		BELT,SUB RR
19	82-ZM1-222-219		LVR,PLAY
20	82-ZM1-217-419		REEL TABLE
21	82-ZM1-244-519		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM3-221-010		PULLEY,MOT 2M
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-119		LVR ASSY,PINCH
28	86-ZM3-204-010		SPR-T,PINCHDS
29	82-ZM1-240-119		LVR,REC (DECK 2)
30	86-ZM3-210-010		BELT,RS
32	82-ZM3-305-119		GEAR,CAM M2
33	82-ZM1-227-319		LVR,TRIG
34	82-ZM3-306-110		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	87-761-073-419		VFT2+2.6-6 W/O SLOT
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-319		GEAR,REEL
42	86-ZM3-213-010		S-SCREW,HLDR,MOT 3
43	82-ZM1-225-219		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-019		FLY-WHL RW (DECK L)
47	82-ZM3-338-010		FLY-WHL R3W (DECK R)
48	82-ZM1-259-210		SPR-T,PINCH R
49	82-ZM1-341-110		LVR ASSY,PINCH L2
50	82-ZM1-258-210		SPR-T,PINCH L
51	82-ZM1-314-110		PLATE,HEAD
52	82-ZM1-208-310		HLDR,HEAD
53	87-A90-366-010		HEAD,PH YK50P-BF414
54	82-ZM1-207-810		GUIDE TAPE
55	82-ZM1-213-010		SPR-T,HEAD
56	82-ZM1-210-110		GEAR,HT
57	86-ZM4-206-010		S-SCREW AZIMUTH L
58	82-ZM1-348-010		FLY-WHL,LW
59	82-ZM1-236-019		CAPSTAN N 2-41.5
60	82-ZM3-335-210		PULLEY,COUPLER M3
61	86-ZM1-206-010		BELT,MAIN L
62	82-ZM1-266-110		LVR,DIR
63	82-ZM1-214-010		SPR-T,DIR
64	82-ZM1-255-310		SPR-E,LVR DIR
65	82-ZM3-339-010		SHAFT,COUPLER N3
A	87-251-071-417		U+2.6-4
B	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
C	82-ZM3-334-010		PW,2.16-6-0.4
D	80-ZM6-207-010		V+1.6-7
E	85-ZM3-202-010		S-SCREW TG
F	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
G	87-B10-043-010		W-P,0.99-4-0.25 SLT
H	87-571-032-410		VIT+2-3

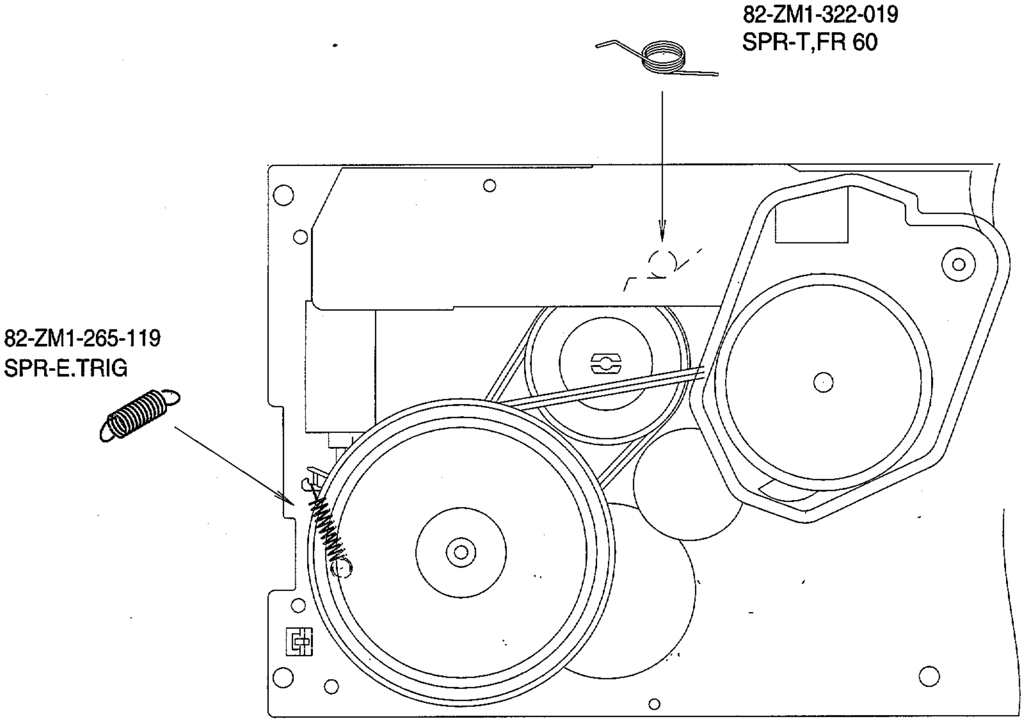
SPRING APPLICATION POSITION <2ZM-3MK2 PR4NM>


82-ZM1-257-019
SPR-T,CAS
82-ZM1-218-019
SPR-E,HB
82-ZM1-285-310
SPR-C,BT L
82-ZM1-244-410
SPR-C,BT
82-ZM1-219-119
SPR-T,LINK
82-ZM1-259-110
SPR-T,PINCH R
82-ZM1-258-110
SPR-T,PINCH L
82-ZM1-213-019
SPR-T,HEAD
82-ZM1-269-219
SPR-T,BRG
82-ZM1-214-010
SPR-T,DIR


82-ZM1-322-019
SPR-T,FR 60
82-ZM1-265-119
SPR-E.TRIG
82-ZM1-255-319
SPR-E,LER DIR

SPRING APPLICATION POSITION <6ZM-3 PR2NM>

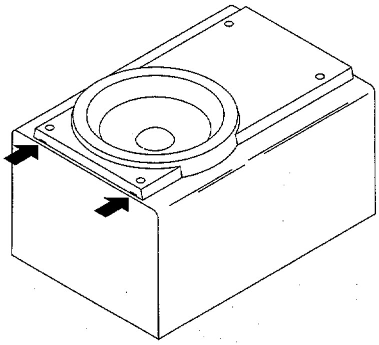

82-ZM1-219-110
SPR-T,LINK
82-ZM1-285-410
SPR-C,BT L
82-ZM1-257-019
SPR-T,CAS
82-ZM1-218-019
SPR-E,HB
82-ZM1-244-519
SPR-C,BT
82-ZM1-214-010
SPR-T,DIR
82-ZM1-255-310
SPR-E,LVR DIR
86-ZM3-205-010
SPR-C,RPH S
86-ZM3-204-010
SPR-T,PINCH DS
82-ZM1-213-010
SPR-T,HEAD
86-ZM1-258-210
SPR-T,PINCH L
86-ZM1-259-210
SPR-T,PINCH R
86-ZM3-206-010
SPR-C,EH S
82-ZM1-269-219
SPR-T,BRG


82-ZM1-322-019
SPR-T,FR 60
82-ZM1-265-119
SPR-E.TRIG

SPEAKER DISASSEMBLY INSTRUCTIONS

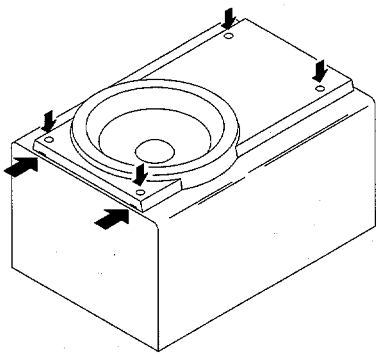
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



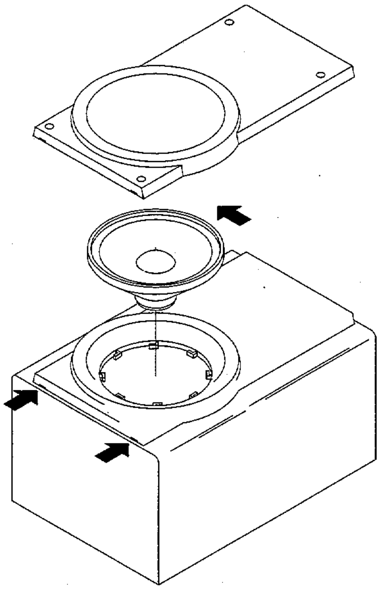
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

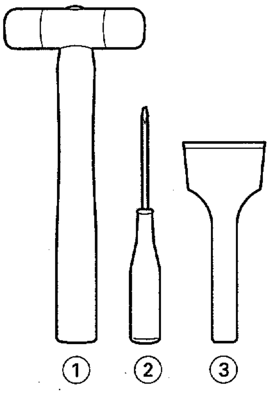


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

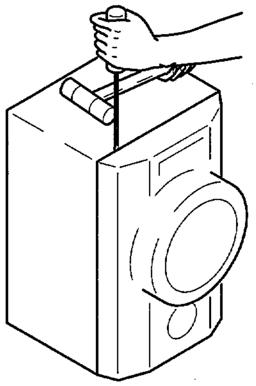


Fig-1

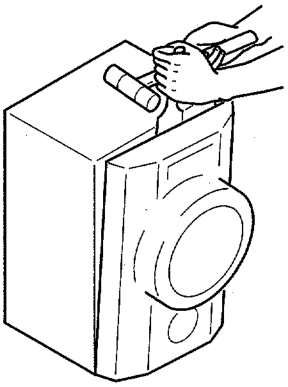


Fig-2

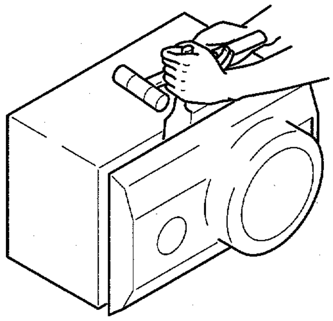


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST
SX-WNS555 (YLSTCC, YLSC1C, YLSTL, YLSKM)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS3-029-010		CORD,BUSH L
2	88-NS5-610-010		CORD,SPKR
3	88-NS5-611-010		CORD,SPKR B/L
4	8Z-NS8-002-010		PANEL,BA
5	8Z-NS8-008-010		PANEL,BA 556<556EZ>
6	8Z-NS8-003-010		PROTECTOR, TW
7	8Z-NS8-012-010		PANEL,FR N<YSTC9,YSTY1,YSTY2>
8	8Z-NS8-016-010		GRILL FRAME ASSY<YSTC9,YSTY1,YSTY2>
9	8Z-NSY-003-010		CORD,BUSH
10	8Z-NSY-602-010		SPKR, W 160<YJSTL,YSTL,YJSTC1>
11	8Z-NSY-604-010		SPKR, M 100<YJSTL,YSTL,YJSTC1>
12	8Z-NSY-602-110		SPKR, W 160<YJSTC9,YSTC9>
13	8Z-NSY-604-110		SPKR, M 100<YJSTC9,YSTC9>
14	8Z-NS8-604-010		SPKR, W 160<YSTY1,YSTY2>
15	8Z-NS8-606-010		SPKR, M 100<YSTY1,YSTY2>

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-A90-054-010		ANT LOOP AM-CON C<HR>
1	87-A90-030-010		ANT LOOP AM-NC C<EXCEPT HR>
2	87-043-106-010		AM,FM 1007AWG<555/556EZ,K>
3	8Z-NF8-701-110		RC UNIT,RC-ZAS01<HR,555/556EZ>
3	8Z-NF8-702-010		RC UNIT,RC-ZAS01<EXCEPT K>
4	8Z-NF8-905-010		IB,K(E)E<K>
4	8Z-NF8-916-010		IB,EZ(9L)M NO RDS-S555<555EZ>
4	8Z-NF8-906-010		IB,EZ(9L)E RDS-S556<556EZ>
4	8Z-NF8-901-110		IB,H(ECA)M<HR>
4	8Z-NF8-907-010		IB,V(ER)M<V>
⚠ 5	87-050-079-010		AC CORD ASSY,E BLK
⚠ 6	87-099-811-010		PLUG,ADPTR CONV(K)<K>
⚠ 6	87-099-789-010		PLUG,ADPTR IR44<HR>
7	87-043-115-010		ANT,FEEDER FM<HR,V>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

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REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
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